WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JANUARY 1, 1883.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham, (Oscott) Cheadle, Churchstoke. Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	54	22	45	33	39	1 above.	7	19	14 more.	8	17
	2. ENGLAND, N.E.	55	29	48	38	43	5 above.	6	8	2 more.	1	1
	3. ENGLAND, E.	58	36	52	42	47	9 above.	6	10	3 more.	0	0
	4. MID. COUNTIES	59	32	52	43	48	10 above.	6	15	9 more.	1	2
	5. ENGLAND, S.	57	40	53	48	51	11 above.	7	12	5 more.	1	1
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	55	28	47	38	42	3 above.	7	23	9 more.	1	1
	7. ENGLAND, N.W.	56	33	50	41	45	5 above.	6	16	9 more.	2	4
	8. ENGLAND, S.W.	58	43	53	48	51	9 above.	7	24	14 more.	1	2
	9. IRELAND, N.	56	31	51	41	46	5 above.	6	10	2 more.	0	0
	10. IRELAND, S.	57	34	53	45	49	7 above.	7	16	5 more.	2	4

General Remarks.

Weather during this period has been in an exceedingly gloomy condition, with frequent and rather heavy falls of rain.

Temperature has been higher than during last week in all districts; over the greater part of England the readings have varied from 9° to 11° above the mean, in Ireland from 5° to 7°, and in Scotland from 1° to 3°. The maxima, which were registered on different days in various places, were abnormally high for the season. In "England, S." and "Ireland, S." the thermometer rose to 57°, in "England, E." and "England, S.W." to 58°, and in the "Midland Counties" to 59°. The minima were generally recorded either on the 27th or 31st, and varied from 22° to 28° in Scotland, from 31° to 34° in Ireland, and from 29° to 43° over England.

Rainfall has been more than the mean in all districts, the excess in most parts of Great Britain being considerable.

Bright sunshine has been singularly deficient in all places. In "Scotland, E." 17 % of the possible duration has been registered, and in "Ireland, S." and "England, N.W." 4 %, but in all other parts of the Kingdom the records either show a complete absence of sunshine or only 1 or 2 per cent.

Depressions observed.—The barometer has been high and uniform over France and comparatively low and unsteady over our Islands and Scandinavia. Several depressions have again approached our coasts from the Atlantic, and, travelling in an easterly or north-easterly direction, have occasioned the south-westerly and westerly winds to freshen at all our more southern stations, and at times to blow with the force of a moderate gale.

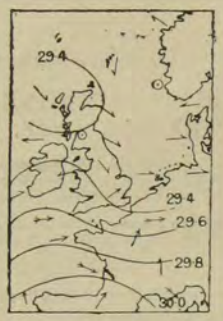
R 4899. 470.—1/83. Wt. 233. E. & S.

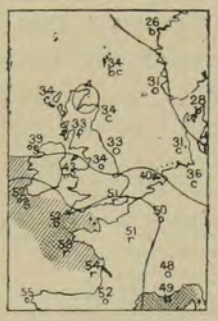
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending January 1, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.





Tuesday, December 26.

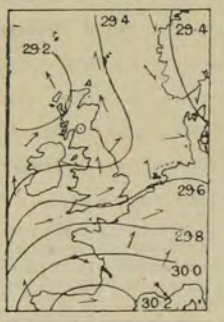
Weather cloudy or overcast generally, with rain over France and the S.E. of England. Rain subsequently setting in at the western stations also, but weather improving in Scotland.

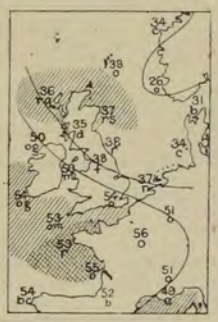
Temperature fallen a little at the more northern stations, but risen in the S.; readings ranging from 52° at Valencia, Scilly, and Jersey, to 25° at Wick. Maxima again high in the S.

Wind light north-westerly in the N., and north-easterly at the more central stations, but strong westerly in the S. Backing to S.W. on our S.W. coasts later.

Sea rough in the Channel and S.W.

Barometer falling generally. Readings highest over Spain, but large shallow depression over Scotland, and smaller disturbances over Scandinavia and the North Sea. Brisk recovery subsequently taking place, but new depression appearing in W. in evening.





Wednesday, December 27.

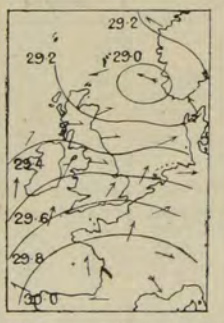
Weather cloudy or overcast generally, with rain in many places, and sleet in the E. of Scotland. No important change later.

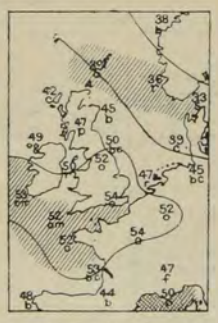
Temperature fallen in Sweden, risen elsewhere; readings ranging from 54° at Valencia to 35° at Nairn. Maxima as high as 57° in London and 56° at Parsonstown, Valencia, and Cambridge.

Wind northerly or north-westerly in Scandinavia, but south-easterly on our own N. and E. coasts, and south-westerly or westerly elsewhere. Strong in force at the extreme northern and southern stations.

Sea very rough in the S.W., S., and N.

Barometer falling our Islands, rising at Continental stations. Pressure highest Spain, with depressions disappearing over Baltic and Northern Russia, and new disturbance advancing towards the W. of Scotland. Latter subsequently moving northward, and barometer rising in S.





Thursday, December 28.

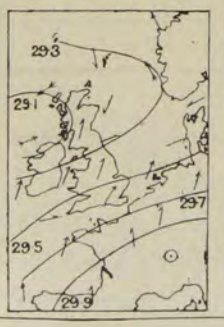
Weather fine in Sweden and on our N.E. coasts, but remaining cloudy or overcast elsewhere, with rain in the W. and S. Heavy rain falling N. of Scotland later.

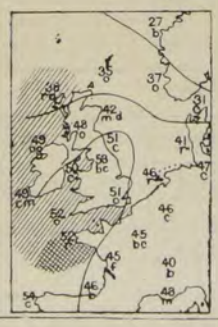
Temperature risen quickly N. and E., fallen slightly S.W.; readings ranging from 54° in London and at Cambridge to 39° at Sumburgh Head. Maxima still high generally.

Wind easterly in Norway and the Shetlands, south-westerly or westerly elsewhere; fresh or strong in force generally, with gales at Leith and Oxford. Subsequently rising to gale in S.W.

Sea rough in the S. and S.W.

Barometer falling a little at Valencia as well as on the eastern shores of the North Sea, rising elsewhere. Depression of previous day now shown between the Scotch and Norwegian coasts and subsequently moving away eastward, but new disturbance appearing in W.





Friday, December 29.

Weather fine in the E. and S. of France, and also in the N. of Scandinavia, cloudy or overcast elsewhere, with rain in many places. Sleet subsequently falling in the Hebrides.

Temperature fallen over France and the S. of England; changed irregularly elsewhere; readings ranging from 53° over central England to 35° at Sumburgh Head and Nairn. Maxima very high generally.

Wind easterly or north-easterly in the N. of Scotland, south-westerly or westerly in all other districts; strong to a gale in force at some western and southern stations. Subsequently veering to N.W. in Ireland.

Sea rough at all but the eastern stations.

Barometer rising Scandinavia, falling elsewhere. Pressure highest S. of France, with rather deep depression lying off our N.W. coasts. Disturbance moving eastwards later and barometer rising in W.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, December 30.

Weather fine at some northern and eastern stations, and also in the S. of France, overcast elsewhere, with rain in the S. of England.

Temperature fallen several degrees at all but the southern stations; readings ranging from 53° at Scilly to 31° at Nairn.

Wind north-westerly in N. and E., and south-westerly in S. and S.W., but easterly in N.W. Still strong in force in the Channel and Bay of Biscay. Shifting to the eastward in N. later.

Sea rough in the S.W. and S.

Barometer falling in Denmark and the S. of Scandinavia, as well as on our S.W. coasts, rising elsewhere. Depression of previous day now close to the Skager Rack, but new, though somewhat shallow, disturbance appearing in S.W. Latter subsequently travelling slowly across southern England.

Sunday, December 31.

Weather fine to the eastward of the North Sea, overcast in our Islands and France, with rain in the W. and S. Rain falling generally later.

Temperature risen except in S., and readings ranging from 52° at Valencia and Scilly to 40° at Sumburgh Head, Nairn, Shields, and York. Maxima very high generally.

Wind westerly and north-westerly in Scandinavia, generally southerly elsewhere; light or moderate in force at most stations, but strong to a gale in the N. of Scotland. Gale subsequently lulling.

Sea rough in the extreme N. and S.W.

Barometer falling briskly N. and slightly W., but rising elsewhere. Readings highest in the S.E. of France, with depression off the W. of Scotland. Disturbance subsequently moving away northward, but further depressions appearing in S.

Monday, January 1.

Weather fair in France, cloudy or overcast elsewhere, with rain or fog in many places. Little change later.

Temperature risen generally—quickly over central England; readings ranging from 54° at Valencia and the English midland stations to 40° at Nairn. Maxima again very high, thermometer at Cambridge reaching 58°.

Wind chiefly south-westerly; light in E. and N., fresh or strong in W. and S.

Sea rough in the S.W. and S.

Barometer rising Scandinavia and France, falling our Islands. Large depressions passing along our western coasts in a northerly direction, but pressure still highest over the S.E. of France.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	47	30	40·7	32·7	36·7	−3·0	5	0·87	+0·15	•	•
	Stornoway	49	24	45·7	32·4	38·1	−1·0	7	1·90	+0·54	2	5
	Wick	46	16	42·9	30·4	36·7	−2·0	6	1·17	+0·51	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	54	50	53·6	50·7	52·2	+5·7	7	1·58	+0·54	•	•
	Jersey (Noirmont)	56	47	53·3	48·7	51·0	+8·3	6	1·20	+0·42	4	7

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	?47	22	?42·3	30·9	?36·6	? − 1·0	6	?1·81	?+1·33	*	*
	Aberdeen	50	22	45·7	32·7	39·2	+ 1·9	7	1·65	+1·01	8	17
	Leith	54	30	47·7	34·3	41·0	+ 3·2	7	2·16	+1·78	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	30	46·4	37·4	41·9	+ 4·2	7	1·18	?	*	*
	Shields	55	31	48·6	35·0	41·8	+ 3·1	6	0·65	+0·09	*	*
	Durham	53	29	47·4	36·6	42·0	+ 4·4	6	0·68	+0·04	1	12
	Scarborough ℔	54	34	48·7	40·8	44·8	+ 7·0	5	0·65	+0·03	0	0
	York	55	32	49·1	37·7	43·4	+ 5·3	6	0·92	+0·38	0	0
	Spurn Head	53	36	48·7	40·1	44·4	+ 5·9	5	0·54	?	*	*
3. ENGLAND, E.	Hillington ℔	54	36	49·6	41·5	45·6	+ 8·2	6	0·77	+0·21	0	0
	Yarmouth	54	36	49·7	40·0	44·9	+ 6·2	5	0·90	+0·21	*	*
	Geldeston	55	36	51·4	42·4	46·9	+ 8·2	5	1·02	+0·52	0	0
	Cambridge	58	36	53·6	42·4	48·0	+10·0	7	0·99	+0·59	0	0
	Rothamsted	56	41	53·5	44·8	49·2	+11·6	7	1·50	+0·89	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	34	50·1	40·9	45·5	+ 6·7	4	0·71	+0·21	*	*
	Loughborough	55	36	52·3	42·3	47·3	+ 9·7	5	1·50	+0·97	*	*
	Leicester	55	35	52·5	43·9	48·2	+11·0	7	1·52	+0·99	0	0
	Birmingham (Oscott)	54	36	50·7	41·4	46·1	+ 9·0	6	1·46	+0·80	*	*
	Cheadle ℔	54	32	50·4	39·3	44·9	+ 7·6	7	2·33	?	*	*
	Churchstoke ℔	56	35	51·9	43·0	47·5	+ 9·3	6	1·27	?	0	0
	Hereford ℔	57	40	54·4	45·0	49·7	+11·2	7	1·10	+0·36	*	*
	Cirencester	59	39	53·6	44·3	49·0	+10·6	7	2·02	+1·23	3	6
	Oxford	55	43	54·0	48·1	51·1	+12·2	7	1·81	+1·25	1	2
5. ENGLAND, S.	London†	57	45	55·0	49·0	52·0	+13·0	6	0·94	+0·34	0	0
	Marlborough ℔	54	46	52·6	48·5	50·6	+12·4	7	1·53	+0·74	2	4
	Strathfield Turgiss ℔	57	40	54·7	47·2	51·0	+12·4	7	1·08	+0·50	*	*
	Dover	54	44	52·1	47·0	49·6	+ 9·1	7	1·27	+0·47	*	*
	Hastings (St. Leonard's)	54	47	52·0	48·1	50·1	+ 9·7	7	1·26	+0·57	0	0
	Southampton	55	49	53·6	50·0	51·8	+12·7	7	1·31	?	0	0
	Hurst Castle	52	46	51·1	48·0	49·6	+ 8·5	7	1·23	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	52	28	46·7	35·9	41·3	+ 1·6	6	3·81	?	*	*
	Glasgow	51	31	45·5	36·7	41·1	+ 2·5	7	2·38	+1·22	0	0
	Ardrossan	55	31	48·7	35·1	41·9	+ 2·8	7	1·85	+0·83	*	*
	Silloth (Cumberland)	50	39	?47·5	39·0	?43·3	? + 4·5	6	1·45	+0·67	0	0
	Douglas (Isle of Man)	53	36	47·7	41·3	44·5	+ 3·7	7	1·94	+0·77	1	2
7. ENGLAND, N.W.	Barrow-in-Furness	53	35	47·9	39·0	43·5	+ 3·1	6	1·98	?	*	*
	Stonyhurst	53	34	49·0	37·8	43·4	+ 4·9	6	1·60	+0·53	0	0
	Blackpool ℔	53	35	49·0	38·9	44·0	+ 3·4	6	1·41	+0·67	0	0
	Manchester	53	33	49·5	39·8	44·7	+ 5·7	7	1·72	+0·92	*	*
	Liverpool Obsy (Bidston)	56	34	52·3	41·6	47·0	+ 6·9	6	1·47	+0·99	*	*
	Llandudno ℔	55	35	51·6	43·2	47·4	+ 5·7	7	1·30	+0·46	7	13
	Holyhead	51	36	50·0	42·9	46·5	+ 3·5	7	1·58	+0·62	*	*
8. ENGLAND, S.W.	Pembroke	51	43	50·6	47·4	49·0	+ 6·3	7	1·71	+0·68	4	8
	Arlington (N. Devon)	53	45	52·3	47·3	49·8	+ 9·5	7	4·27	?	*	*
	Cullompton ℔	58	49	55·7	49·8	52·8	+11·9	7	1·56	?	0	0
	Falmouth	55	50	53·6	51·0	52·3	+ 8·6	7	3·02	+2·02	0	0
	Plymouth	55	50	54·2	50·4	52·3	+ 9·7	7	1·81	+0·78	0	0
	Prawle Point	52	48	51·9	48·9	50·4	+ 8·1	7	2·01	?	*	*
9. IRELAND, N.	Londonderry	56	33	50·5	39·5	45·0	+ 4·4	7	1·29	+0·37	*	*
	Mullaghmore	55	37	52·3	42·7	47·5	+ 5·5	7	1·30	?	*	*
	Markree Castle	54	31	50·9	40·8	45·9	+ 4·5	7	0·32	−0·42	0	0
	Brookeborough	52	31	48·6	39·9	44·3	+ 4·4	6	1·09	?	*	*
	Armagh	54	35	50·8	41·5	46·2	+ 6·4	6	0·79	+0·09	0	0
	Donaghadee	54	37	51·0	42·3	46·7	+ 5·9	5	0·88	?	*	*
10. IRELAND, S.	Dublin	57	39	52·5	44·6	48·6	+ 7·7	6	0·85	+0·30	?	?
	Parsonstown	56	34	52·9	42·9	47·9	+ 8·0	7	1·40	+0·62	2	4
	Waterford										*	*
	Roche's Point	55	40	53·3	45·0	49·2	+ 6·3	7	1·90	+0·52	*	*
	Valencia	56	41	55·0	48·4	51·7	+ 6·4	7	2·07	+0·57	2	4
	Foynes										*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JANUARY 8, 1883.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	48	26	43	33	38	1 above.	1	2	5 less.	6	13
	2. ENGLAND, N.E.	53	24	43	35	39	1 above.	4	2	3 less.	9	18
	3. ENGLAND, E.	55	26	45	36	41	3 above.	3	3	3 less.	8	15
	4. MID. COUNTIES	56	27	44	36	40	2 above.	4	4	3 less.	12	22
	5. ENGLAND, S.	54	30	46	39	43	3 above.	4	2	5 less.	15	28
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	50	27	44	36	40	1 above.	3	5	7 less.	6	12
	7. ENGLAND, N.W.	52	28	44	37	41	0 (average).	3	5	4 less.	11	20
	8. ENGLAND, S.W.	56	29	47	40	44	2 above.	3	2	8 less.	22	40
	9. IRELAND, N.	53	32	47	37	42	2 above.	3	3	5 less.	18	34
	10. IRELAND, S.	53	30	48	39	43	2 above.	3	5	6 less.	20	37

General Remarks.

Weather during this period has undergone a decided change. The first part was dull, rainy, and mild, but the last few days were fair, dry, and cool, and in some places rather foggy.

Temperature has been considerably lower than that of last week, but, except in "England, N.W.", has still been above the mean for the season, the excess over southern and eastern England being as much as 3°. The maxima were generally recorded on the 2nd, and varied from 48° in "Scotland, E." and 50° in "Scotland, W.", to 55° in "England, E." and 56° in the "Midland Counties" and "England, S.W." The minima, which were registered on the 7th or 8th, ranged from 24° in "England, N.E." to 32° in "Ireland, N."

Rainfall has been decidedly less than the mean at all stations.

Bright sunshine has been much more prevalent than during last week in all districts except "Scotland, E." The percentages of possible duration ranged from 40 in "England, S.W." and 37 in "Ireland, S.", to 15 in "England, E." and 12 in "Scotland, W."

Depressions observed.—During the first part of this period the barometer continued highest over France, while in our Islands and Scandinavia some depressions were shown. As the week progressed, however, the high pressure area gradually moved northwards or north-north-eastwards, and by the 8th lay over Norway. The wind, which was at first moderate or fresh from between S.W. and N.W., consequently became rather variable in direction and light in force, but by the end of the period fresh or strong easterly winds had set in in the S. and W. and were slowly extending to all parts of the Kingdom.

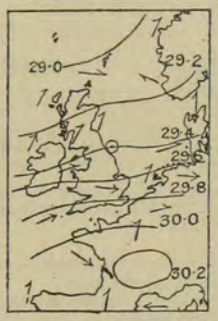
R 5012. 470.—1/83. Wt. 233. E. & S.

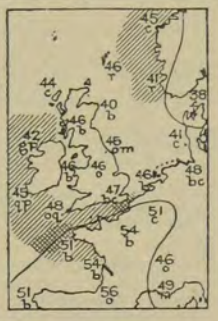
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending January 8, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.





Tuesday, January 2.

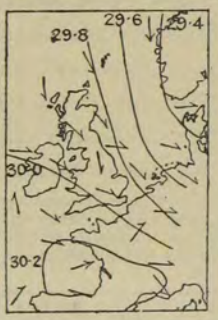
Weather fine and bright in some places, cloudy and showery in others. Subsequently becoming dull and rainy generally.

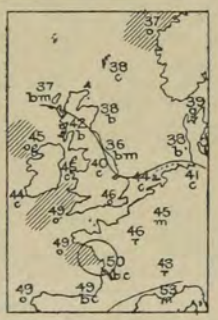
Temperature risen quickly Sweden and Denmark, fallen several degrees our Islands; readings ranging from 50° at Jersey to 40° at Aberdeen and Parsonstown. Maxima still high generally.

Wind varying between S.W. and W.; moderate in N. and E., strong in S. and W. Increasing to strong gale at all western and southern stations later.

Sea rough W. and S.

Barometer falling except S.W. Readings highest S. of France, and lowest to northward of our Islands. Deep subsidiary depression crossing N. of England in evening, and barometer subsequently rising in W.





Wednesday, January 3.

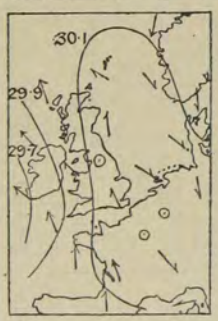
Weather cloudy in central England, the N. of France, and the countries to the eastward of the North Sea, fine elsewhere. Sky becoming cloudy in W. later.

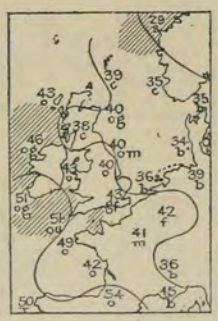
Temperature fallen generally—most in E., and readings ranging from 49° at Scilly to 35° at Nairn and Parsonstown.

Wind chiefly north-westerly and light or moderate in force. Subsequently backing to S.E. in W. and increasing at Valencia.

Sea rather rough in S.W.

Barometer rising generally. Pressure still highest France, and depression of previous day now over Sweden, but new disturbance appearing in S.W. later, and barometer falling in W.





Thursday, January 4.

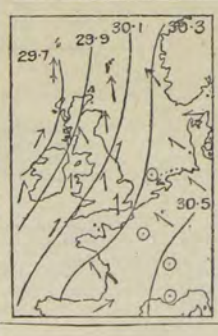
Weather cloudy or overcast at all but the Danish and Swedish stations, and rain subsequently falling generally.

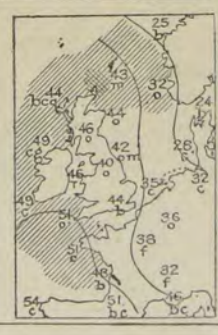
Temperature risen in the W. and S.W., fallen elsewhere; readings ranging from 51° at Valencia and Scilly to 33° at Nairn.

Wind still northerly or north-westerly on the eastern shores of the North Sea, south-easterly or southerly elsewhere; light in E., but very strong in W. Rising to gale on many parts of our western and northern coasts later.

Sea rough in the W. and S.W.

Barometer falling briskly W. and S.W., rising elsewhere. Area of highest readings now lying to south-eastward of our Islands, and rather deep depression appearing in W. Disturbance subsequently travelling northwards, and fall of mercury spreading to all northern stations.





Friday, January 5.

Weather fine and bright in Scandinavia, cloudy elsewhere, with rain in the W. Rain falling in our Islands generally later in day.

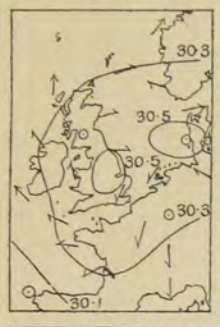
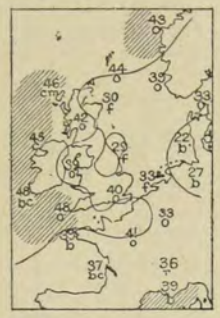
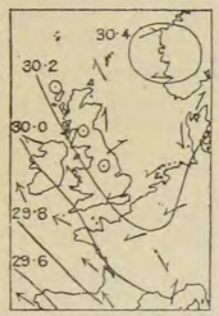
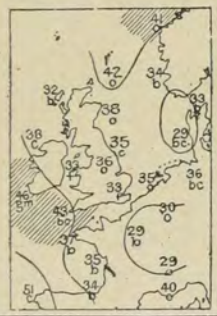
Temperature risen slightly over the United Kingdom, fallen at the Continental stations; readings ranging from 51° at Scilly to 40° over the N. of England.

Wind easterly in Denmark, but south-westerly on our S.W. coasts, and southerly elsewhere; strong in force in N. Subsequently veering to W. in the S.W. and moderating in N.

Sea rough in the W. and N. generally.

Barometer falling in N., rising elsewhere. Two areas of high readings shown; one over the S. of Sweden, and the other over the S.E. of France. Depression of previous day now passing away to the northward of Scotland, and rise of barometer extending to N. later.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	**Weather** during the 24 hours succeeding the date of the Charts.
		Saturday, January 6. *Weather* overcast in the Shetlands and W. of Norway, fair elsewhere, with fog or haze at some eastern stations. *Temperature* fallen several degrees; readings ranging from 50° at Valencia to 33° at Aberdeen and 35° at York and Oxford. *Wind* light or moderate generally; south-westerly in N. and W., but north-westerly in S. and E. *Sea* rough off W. of Ireland and the Shetlands, slight or smooth elsewhere. *Barometer* rising generally, and anticyclone with readings above 30·4 ins. extending over the southern half of the Kingdom from France. Rise continuing all day, but very slowly in extreme W.
		**Sunday, January 7.** *Weather* cloudy in some places and foggy over central and northern England, but fair on the whole. *Temperature* fallen excepting southern England; readings ranging from 48° at Valencia and Scilly to 29° at Shields. Maxima decidedly lower than of late. *Wind* north-easterly in France and our southern districts, south-easterly in the W. and south-westerly in extreme N. Light or moderate in force generally in morning, but increasing to strong breeze on our S.W. coasts later. *Sea* rough in extreme W. and S.W. *Barometer* falling Sweden, the W. of France, and our own S.W. coasts, rising elsewhere. Anticyclone now covering England, the southern portion of the North Sea, and Denmark. Barometer falling generally later.
		**Monday, January 8.** *Weather* fine at our southern and most of the Continental stations, cloudy elsewhere. Sky clearing generally later, but a little rain falling in S.E. *Temperature* fallen excepting in N.E.; readings ranging from 46° at Valencia to 30° at Nairn and Cambridge. Maxima still rather low. *Wind* southerly in the E. of Scotland, south-easterly or easterly elsewhere; light or moderate in E. and N., but strong in S.W. Increasing to gale in S.W. later. *Sea* rough in S.W. *Barometer* falling generally. Anticyclone over S. of Norway, and area of low readings off our S.W. coasts. Fall continuing all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇉ = a heavy gale; ⇒ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
Scotland, N.	Sumburgh Head	47	32	44·7	37·0	40·9	+1·6	5	0·28	−0·42	*	*
	Stornoway	47	31	46·0	38·0	42·0	+3·3	3	0·17	−1·13	9	20
	Wick	45	28	43·3	36·9	40·1	+1·8	3	0·05	−0·54	*	*
Channel Islands	Scilly (St. Mary's)	54	42	50·6	45·3	48·0	+1·7	3	0·26	−0·85	*	*
	Jersey (Noirmont)	52	32	46·6	42·9	44·8	+2·5	3	0·35	−0·43	16	28

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	46	28	?41·0	?33·3	?37·2	? − 0·2	0	—	−0·50	*	*
	Aberdeen	46	26	42·6	32·0	37·3	+ 0·2	3	0·08	−0·57	6	13
	Leith	48	28	45·1	33·9	39·5	+ 1·9	1	0·12	−0·28	*	*
2. ENGLAND, N.E.	Alnwick Castle	45	29	41·1	33·3	37·2	− 0·2	4	0·13	?	*	*
	Shields	48	26	42·6	34·4	38·5	+ 0·1	3	0·18	−0·33	*	*
	Durham	50	24	41·4	32·1	36·8	− 0·5	4	0·13	−0·44	3	18
	Scarborough ℳ	53	31	44·1	37·2	40·7	+ 3·0	3	0·17	−0·38	*	*
	York	48	28	43·3	35·2	39·3	+ 1·5	5	0·21	−0·29	2	17
	Spurn Head	47	33	43·1	38·0	40·6	+ 2·1	4	0·21	?	*	*
3. ENGLAND, E.	Hillington ℳ	55	26	44·8	33·6	39·2	+ 2·1	2	0·18	−0·32	6	11
	Yarmouth	49	34	43·6	38·6	41·1	+ 2·7	4	0·39	−0·27	*	*
	Geldeston	54	32	45·7	37·1	41·4	+ 3·1	2	0·25	−0·21	10	18
	Cambridge	50	29	44·1	37·0	40·6	+ 3·0	3	0·22	−0·18	*	*
	Rothamsted	55	31	45·3	35·3	40·3	+ 2·9	4	0·22	−0·45		
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	47	30	42·6	34·7	38·7	+ 0·2	1	0·28	−0·19	*	*
	Loughborough	48	31	44·3	37·9	41·1	+ 3·8	5	0·29	−0·26	*	*
	Leicester	53	31	45·5	37·8	41·7	+ 4·6	6	0·27	−0·28	10	19
	Birmingham (Oscott)	52	27	44·0	36·0	40·0	+ 3·1	2	0·39	−0·31	*	*
	Cheadle ℳ	51	29	43·2	34·0	38·6	+ 1·6	3	0·37	?	*	*
	Churchstoke ℳ	56	28	44·7	33·1	38·9	+ 0·9	4	0·45	?	6	11
	Hereford ℳ	51	29	45·2	35·3	40·3	+ 2·0	3	0·21	−0·57	*	*
	Cirencester	48	31	43·9	36·4	40·2	+ 2·0	4	0·62	−0·27	15	28
	Oxford	50	31	45·3	39·4	42·4	+ 3·7	4	0·23	−0·35		
5. ENGLAND, S.	London†	51	32	45·9	38·9	42·4	+ 3·6	4	0·22	−0·42	9	16
	Marlborough ℳ	52	31	44·4	36·1	40·3	+ 2·3	4	0·44	−0·37	13	24
	Strathfield Turgiss ℳ	54	30	46·1	37·1	41·6	+ 3·2	4	0·12	−0·54	*	*
	Dover	50	36	45·9	41·7	43·8	+ 3·9	3	0·11	−0·69	*	*
	Hastings (St. Leonard's)	52	35	46·5	40·2	43·4	+ 3·6	4	0·17	−0·54	16	29
	Southampton	53	31	46·9	37·8	42·4	+ 3·5	3	0·21	?	23	42
	Hurst Castle	51	35	46·9	39·7	43·3	+ 2·5	3	0·26	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	49	32	45·3	37·1	41·2	+ 1·8	3	0·84	?	*	*
	Glasgow	50	30	43·4	35·7	39·6	+ 1·1	3	0·29	−0·93	0	0
	Ardrossan	46	30	44·3	37·4	40·9	+ 1·8	3	0·78	−0·32	*	*
	Silloth (Cumberland)	46	27	42·8	34·9	38·9	+ 0·2	3	0·29	−0·59	12	24
	Douglas (Isle of Man)	50	32	46·2	35·1	40·7	+ 0·2	3	0·41	−0·82	6	12
7. ENGLAND, N.W.	Barrow-in-Furness	45	32	42·7	38·0	40·4	+ 0·2	3	0·37	?	*	*
	Stonyhurst	52	29	45·0	33·7	39·4	+ 1·1	2	0·77	−0·32	8	12
	Blackpool ℳ	47	28	42·8	35·2	39·0	− 1·4	5	0·62	−0·14	10	19
	Manchester										*	*
	Liverpool Obs' (Bidston)	47	30	43·1	37·6	40·4	+ 0·6	3	0·34	−0·20	*	*
	Llandudno ℳ	51	30	?45·1	36·8	?41·0	− 0·4	3	0·46	−0·41	16	30
	Holyhead	49	32	46·1	39·9	43·0	+ 0·4	4	0·17	−0·79	*	*
8. ENGLAND, S.W.	Pembroke	50	37	46·3	42·3	44·3	+ 1·8	4	0·18	−0·91	22	41
	Arlington (N. Devon)	50	30	45·7	36·0	40·9	+ 0·7	3	0·20	?	*	*
	Cullompton ℳ	51	29	46·5	36·0	41·3	+ 0·6	4	0·35	?	20	36
	Falmouth	52	41	48·6	42·9	45·8	+ 2·3	3	0·30	−0·70	24	43
	Plymouth	53	33	48·4	39·9	44·2	+ 1·7	3	0·26	−0·84	22	39
	Prawle Point	56	35	48·9	40·7	44·8	+ 2·7	2	0·08	?	*	*
9. IRELAND, N.	Londonderry	53	34	50·2	37·5	43·9	+ 3·3	3	0·34	−0·55	*	*
	Mullaghmore	49	34	47·6	39·6	43·6	+ 1·6	3	0·39	?	*	*
	Markree Castle	49	33	46·8	36·1	41·5	0·0	3	0·11	−0·62	16	31
	Brookeborough	49	34	46·5	36·1	41·3	+ 1·3	3	0·51	?	*	*
	Armagh	50	35	45·6	37·6	41·6	+ 1·9	4	0·14	−0·56	19	37
	Donaghadee	50	32	45·6	37·3	41·5	+ 0·9	4	0·35	?	*	*
10. IRELAND, S.	Dublin	51	30	46·3	37·3	41·8	+ 1·1	2	0·26	−0·36	27	51
	Parsonstown	49	34	46·3	36·4	41·4	+ 1·6	2	0·46	−0·34	21	40
	Waterford										*	*
	Roche's Point	51	38	49·6	41·3	45·5	+ 2·8	3	0·40	−1·03	*	*
	Valencia	53	40	50·4	43·1	46·8	+ 1·7	4	0·85	−0·73	11	20
	Foynes	51	34	45·2	38·2	41·7	+ 0·3	4	0·37	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

METEOROLOGICAL OFFICE,
116, VICTORIA STREET, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JANUARY 15, 1883.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Hea
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hasting (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	47	24	43	36	40	2 above.	2	3	3 less.	1	2
	2. ENGLAND, N.E.	45	30	41	36	39	1 above.	4	5	0 (average).	1	1
	3. ENGLAND, E.	47	29	42	35	39	1 above.	4	5	0 (average).	8	14
	4. MID. COUNTIES	51	29	42	35	38	1 above.	6	7	1 more.	7	13
	5. ENGLAND, S.	52	30	44	37	41	2 above.	6	7	1 less.	8	14
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	49	29	43	37	40	1 above.	5	9	4 less.	8	15
	7. ENGLAND, N.W.	50	28	43	36	39	1 below.	5	9	0 (average).	10	18
	8. ENGLAND, S.W.	51	29	48	40	44	2 above.	5	10	2 less.	7	13
	9. IRELAND, N.	51	35	45	39	42	1 above.	5	6	2 less.	8	14
	10. IRELAND, S.	51	35	48	40	44	2 above.	6	10	2 less.	8	15

General Remarks.

Weather has been very dull and unsettled in nearly all parts of the Kingdom, with frequent showers of rain.

Temperature has again been above the mean in all districts except "England, N.W.", the excess ranging from 1° to 2°. The maxima which were registered on the 11th in Ireland and the S.W. of England, and on the 15th in most other districts, varied from 45° in "England, N.E." to 52° in "England, S." The minima were generally recorded on the first day of the period, and ranged from 24° in "Scotland, E." and 28° in "England, N.W.", to 35° in Ireland.

Rainfall has been a little more than the mean in the "Midland Counties" and equal to it in the N. and E. of England, but in all other places the fall has been rather less than the mean.

Bright sunshine has been considerably less than that recorded during last week at almost all stations, the percentages of possible duration ranging from 1 in "England, N.E." and 2 in "Scotland, E.", to 15 in "Scotland, W." and "Ireland, S.", and 18 in "England, N.W."

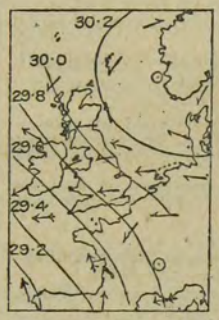
Depressions observed.—During the whole of this period pressure continued highest over Scandinavia and lowest to the south-westward or westward of our Islands. Gradients for easterly or south-easterly winds consequently prevailed, and fresh or strong breezes from those quarters were experienced in all parts of the Kingdom. At times the wind increased to the force of a gale—especially on our western and northern coasts. Towards the close of the period the area of high pressure over Scandinavia gave way somewhat, and, as depressions were travelling northwards outside our western coasts, the wind in most places became southerly, and in the S.W. and S. south-westerly.

R 5106. 470.—1/83. Wt. 233. E. & S.

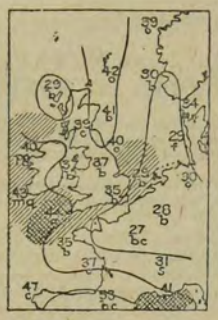
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending January 15, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.



CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, January 9.

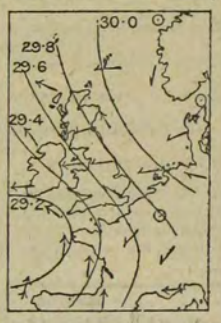
Weather fair excepting in the N.E., where overcast, with some rain. Rain subsequently falling over southern England.

Temperature fallen S.W., risen elsewhere; readings ranging from 44° at Scilly to 26° at Nairn.

Wind easterly over England, Ireland, and the N. of France, southerly or south-easterly elsewhere; strong to a gale in the W. and S.

Sea high at mouth of the Channel, rough on all the English and Irish coasts.

Barometer falling generally. Large area of high pressure lying over Norway, Denmark, and the North Sea, and lowest readings found off our S.W. coasts. Fall continuing all day.



Wednesday, January 10.

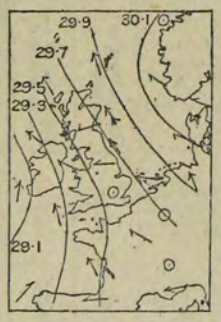
Weather cloudy or overcast at all but the Scandinavian stations, with rain in the N.E. of England. Rain falling later in nearly all districts.

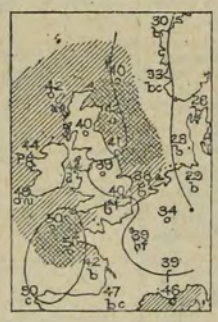
Temperature risen generally—several degrees in France; readings ranging from 48° at Valencia and Scilly to 38° at Loughborough, Barrow-in-Furness, and Liverpool.

Wind southerly in the W. of France, south-easterly or easterly elsewhere. Strong to a gale in many places.

Sea rough on all but our S.E. coasts.

Barometer falling generally. Anticyclone now over Sweden, and area of low pressure still lying off our S.W. coasts. Barometer rising over W. of France in evening.





Thursday, January 11.

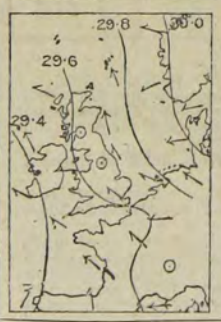
Weather cloudy or overcast generally, with rain at several stations. Some improvement taking place in S.W. later.

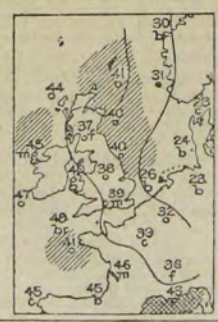
Temperature risen slightly in most places; readings ranging from 50° at Scilly to 38° at Yarmouth.

Wind generally south-easterly; strong to a gale in the N., moderate or fresh in the S.

Sea high in the N. and N.E., rough in the W. and S.W.

Barometer rising a little S.W., still falling elsewhere. Anticyclone now over the S. of Sweden, and lowest readings reported from the S.W. of Ireland. Low pressure subsequently moving northward, and barometer rising at all but extreme northern stations.





Friday, January 12.

Weather again very cloudy generally, with drizzling rain over central England. Rain subsequently falling on all but our extreme northern coasts.

Temperature fallen slightly; readings ranging from 49° at Scilly to 35° at Nairn.

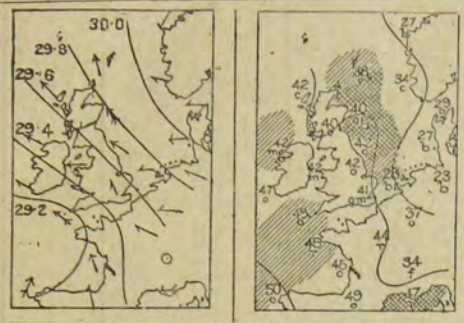
Wind easterly in S., south-easterly or southerly elsewhere; fresh or strong in force on our northern coasts, light or moderate in the S.

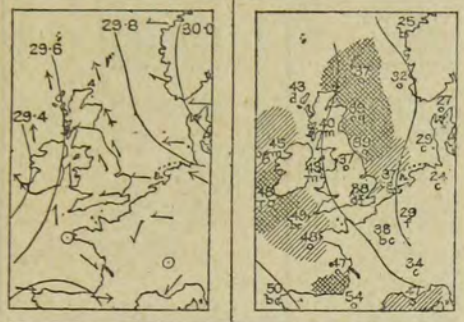
Sea rough on all the more northern coasts, moderate or smooth generally.

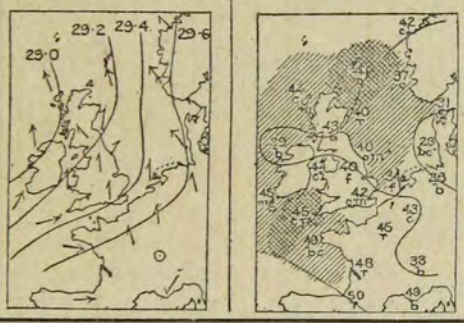
Barometer still rising in S.W., but falling elsewhere. Highest pressures found near the Skager Rack, and lowest off the S.W. of Ireland. New fall taking place in S.W. later, and depression advancing in south-easterly direction towards the Bay of Biscay.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, January 13.

Weather cloudy or overcast generally, with drizzling rain over central England. Rain falling in many places later.

Temperature risen except W.; readings ranging from 49° at Scilly to 38° in the Shetlands.

Wind generally south-easterly or easterly; fresh or strong in most districts, with a gale in the E. of Scotland. Falling moderate in S. later.

Sea very high at Aberdeen, rough on all our eastern, northern, and several parts of our western coasts.

Barometer falling except S. of Ireland. Readings still highest Sweden and lowest off our S.W. coasts. Low pressure in S.W. moving south-eastwards, and barometer subsequently rising at all our stations.

Sunday, January 14.

Weather still cloudy or dull generally, with rain at Stornoway and Valencia. Rain falling at all stations later, and lightning occurring in Ireland at night.

Temperature risen slightly Ireland, fallen elsewhere; readings ranging from 49° at Scilly to 35° at Loughborough.

Wind easterly in S. and S.E., but southerly or south-easterly elsewhere; strong in Ireland and Scotland, with gales at Aberdeen and Valencia. Fresh or strong gales at many western and northern stations later.

Sea very high off the N.E. of Scotland, rough on our coasts generally.

Barometer rising at our southern and the French stations, falling elsewhere—most in W. Depression approaching the W. of Ireland and subsequently moving northwards, occasioning general fall of mercury.

Monday, January 15.

Weather fair at several western and southern stations, still very cloudy elsewhere, with rain on many parts of our E. coasts. Sky subsequently clearing in most districts.

Temperature fallen several degrees in Ireland, but risen in Great Britain. Readings ranging from 46° in the S. of England to 36° at Parsonstown.

Wind south-easterly on eastern shores of North Sea, southerly or south-westerly elsewhere; strong in force in extreme W. and N.

Sea very high off the N. of Scotland, rough in the W. and N. generally.

Barometer falling at nearly all stations. Readings still highest Sweden, with area of low pressure off our W. and N.W. coasts. Latter moving northward during day, and barometer rising generally.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➔ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	44	35	41·9	37·3	39·6	+0·2	4	0·33	−0·37	*	*
	Stornoway	47	27	44·6	34·9	39·8	+1·1	5	0·68	−0·62	18	38
	Wick	44	36	42·3	38·9	40·6	+2·3	2	0·26	−0·24	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	40	49·9	44·3	47·1	+1·1	5	0·80	−0·36	*	*
	Jersey (Noirmont)	50	29	47·3	38·1	42·7	+0·6	5	0·45	−0·33	19	32

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	45	24	42·3	33·7	38·0	+ 0·8	1	0·02	−0·53	*	*
	Aberdeen	44	35	42·1	38·6	40·4	+ 3·4	4	0·57	−0·08	1	2
	Leith	47	30	43·9	36·0	40·0	+ 2·6	2	0·21	−0·20	*	*
2. ENGLAND, N.E.	Alnwick Castle	41	30	40·3	36·1	38·2	+ 1·0	4	0·71	?	*	*
	Shields	44	33	42·1	36·7	39·4	+ 1·2	4	0·37	−0·12	*	*
	Durham	43	33	40·0	34·8	37·4	+ 0·4	6	0·68	+0·18	1	2
	Scarborough ℳ	42	35	41·2	38·0	39·6	+ 2·1	3	0·36	−0·14	*	*
	York	44	34	41·7	35·7	38·7	+ 1·0	5	0·73	+0·26	0	0
	Spurn Head	45	36	42·4	37·3	39·9	+ 1·4	4	0·33	?	*	*
3. ENGLAND, E.	Hillington ℳ	45	31	40·8	34·0	37·4	+ 0·6	2	0·23	−0·24	7	13
	Yarmouth	44	34	41·4	35·6	38·5	+ 0·3	4	0·24	−0·37	*	*
	Geldeston	46	35	41·7	36·6	39·2	+ 1·1	5	0·39	−0·02	9	16
	Cambridge	47	29	43·6	34·0	38·8	+ 1·5	4	0·28	−0·12	7	13
	Rothamsted	44	33	41·2	35·3	38·3	+ 1·1	7	1·25	+0·55	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	43	29	40·3	34·3	37·3	− 1·0	5	0·72	+0·30	*	*
	Loughborough	48	32	42·1	35·0	38·6	+ 1·5	6	0·36	−0·19	*	*
	Leicester	46	33	41·8	35·8	38·8	+ 1·9	6	0·54	+0·02	8	15
	Birmingham (Oscott)	46	30	40·6	33·7	37·2	+ 0·8	4	0·65	−0·05	*	*
	Cheadle ℳ	46	31	39·2	33·6	36·4	− 0·3	7	1·05	?	*	*
	Churchstoke ℳ	45	30	41·0	34·2	37·6	− 0·2	7	1·19	?	2	4
	Hereford ℳ	48	32	42·7	35·2	39·0	+ 0·9	6	0·94	+0·16	*	*
	Cirencester	48	31	42·7	35·1	38·9	+ 0·9	7	0·80	−0·10	8	14
	Oxford	51	31	43·6	36·4	40·0	+ 1·5	6	0·39	−0·21	11	20
5. ENGLAND, S.	London†	49	32	43·7	36·0	39·9	+ 1·3	5	0·68	+0·08	4	7
	Marlborough ℳ	48	32	41·5	35·7	38·6	+ 0·8	7	0·82	−0·03	8	14
	Strathfield Turgiss ℳ	?47	30	?43·4	?35·3	?39·4	? + 1·2	6	?	?	*	*
	Dover	47	32	44·6	36·4	40·5	+ 1·0	7	0·34	−0·46	*	*
	Hastings (St. Leonard's)	47	31	45·0	38·6	41·8	+ 2·2	7	0·57	−0·18	11	19
	Southampton	52	31	45·4	38·0	41·7	+ 3·0	7	0·80	?	8	14
	Hurst Castle	50	34	46·7	38·6	42·7	+ 2·2	6	0·73	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	46	34	44·3	38·3	41·3	+ 2·1	5	1·09	?	*	*
	Glasgow	45	33	41·4	36·9	39·2	+ 0·9	5	0·78	−0·44	3	6
	Ardrossan	45	29	42·0	35·7	38·9	− 0·2	5	0·71	−0·45	*	*
	Silloth (Cumberland)	48	32	42·1	35·5	38·8	+ 0·3	4	0·75	−0·17	10	19
	Douglas (Isle of Man)	49	38	43·4	39·0	41·2	+ 0·9	7	0·95	−0·35	11	20
7. ENGLAND, N.W.	Barrow-in-Furness	44	31	42·1	35·6	38·9	− 1·0	5	1·17	?	*	*
	Stonyhurst	47	34	42·0	35·2	38·6	+ 0·5	5	0·80	−0·24	8	15
	Blackpool ℳ	45	28	41·8	34·1	38·0	− 2·2	5	0·91	+0·15	7	13
	Manchester										*	*
	Liverpool Obs? (Bidston)	45	33	41·9	36·1	39·0	− 0·5	6	1·06	+0·50	*	*
	Llandudno ℳ	49	32	43·9	36·4	40·2	− 1·0	5	0·24	−0·66	15	27
	Holyhead	50	33	45·3	37·6	41·5	− 0·8	6	0·97	+0·01	*	*
8. ENGLAND, S.W.	Pembroke	48	35	46·0	40·1	43·1	+ 0·7	4	0·93	−0·20	11	20
	Arlington (N. Devon)	50	29	46·6	35·0	40·8	+ 0·8	3	0·91	?	*	*
	Cullompton ℳ	50	31	47·7	37·3	42·5	+ 1·8	5	1·02	?	6	11
	Falmouth	51	39	48·4	43·8	46·1	+ 2·9	6	1·20	+0·20	6	10
	Plymouth	50	36	49·3	40·7	45·0	+ 2·6	6	0·95	−0·23	5	9
	Prawle Point	51	38	48·3	40·7	44·5	+ 2·7	6	0·67	?	*	*
9. IRELAND, N.	Londonderry	50	35	46·8	37·5	42·2	+ 1·6	6	0·56	−0·44	*	*
	Mullaghmore	51	37	45·4	39·9	42·7	+ 0·4	5	0·82	?	*	*
	Markree Castle	48	35	45·4	38·5	42·0	+ 0·3	4	0·19	−0·56	7	13
	Brookeborough	49	35	44·0	38·1	41·1	+ 1·1	6	0·92	?	*	*
	Armagh	49	35	44·3	38·9	41·6	+ 2·0	6	0·51	−0·19	8	15
	Donaghadee	46	37	43·9	38·6	41·3	+ 0·9	5	0·78	?	*	*
10. IRELAND, S.	Dublin	49	38	45·9	41·0	43·5	+ 3·0	6	0·71	+0·10	8	15
	Parsonstown	51	35	46·6	38·7	42·7	+ 2·9	3	0·47	−0·35	14	25
	Waterford	50	35	43·8	39·4	43·1	+ 1·9	6	1·14	−0·17	*	*
	Roche's Point	50	38	49·3	41·9	45·6	+ 3·0	6	1·32	−0·18	*	*
	Valencia	51	38	49·6	41·4	45·5	+ 0·4	7	1·24	−0·46	3	5
	Foynes	50	35	46·9	37·7	42·3	+ 1·0	7	1·08	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

METEOROLOGICAL OFFICE,
116, VICTORIA STREET, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JANUARY 22, 1883.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861–80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866–75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	56	28	47	34	41	3 above.	3	4	1 less.	19	17
	2. ENGLAND, N.E.	51	26	46	35	40	2 above.	3	1	3 less.	11	20
	3. ENGLAND, E.	53	25	46	34	40	2 above.	4	2	3 less.	11	19
	4. MID. COUNTIES	55	26	48	36	42	4 above.	3	2	4 less.	9	16
	5. ENGLAND, S.	53	31	48	40	44	5 above.	5	3	4 less.	5	9
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	51	30	47	38	43	3 above.	4	14	1 less.	11	20
	7. ENGLAND, N.W.	54	28	47	38	43	2 above.	4	7	1 less.	13	24
	8. ENGLAND, S.W.	53	27	49	42	46	4 above.	5	5	6 less.	13	20
	9. IRELAND, N.	53	29	49	38	44	3 above.	6	8	1 less.	15	27
	10. IRELAND, S.	55	29	51	38	44	2 above.	6	12	0 (average).	15	26

General Remarks.

Weather has continued dull and unsettled, although rather less rain has fallen than during last week.

Temperature has been above the mean in all districts, the excess varying from 5° in "England, S." and 4° in the "Midland Counties" and "England, S.W." to 2° or 3° elsewhere. The maxima, which were registered on different days in various parts of the Kingdom, were as high as 56° in "Scotland, E.", 55° in central England, and the S. of Ireland, and 54° in "England, N.W." The thermometer was lowest early on the 17th over the S.E. of England and on the 21st or 22nd at most of the western and northern stations, when minima ranging from 25° in "England, E." to 31° in "England, S." were recorded.

Rainfall has been about equal to the mean in "Ireland, S.", but less in all other districts.

Bright sunshine has been rather more prevalent than during last week in all parts of the country except the S. of England, the percentages of possible duration ranging from 27 in "Ireland, N." and 26 in "Ireland, S.", to 9 in "England, S."

Depressions observed.—Several disturbances have passed in a north-easterly direction along our north-western and northern coasts, while over France the barometer has been high and uniform; south-westerly and southerly winds have consequently been general over the United Kingdom. The most serious depression appeared off the N.W. of Scotland late on the 19th, occasioning southerly gales on many parts of our northern coasts. In the course of the following day the disturbance moved away eastwards and finally disappeared over Russia.

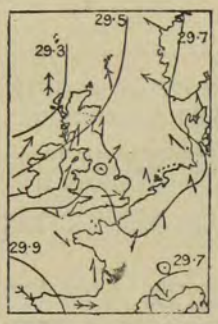
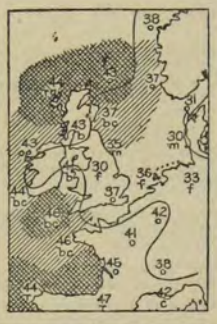
R 5182. 470.—1/83. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending January 22, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, January 16.

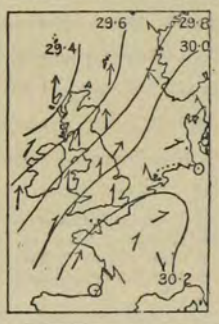
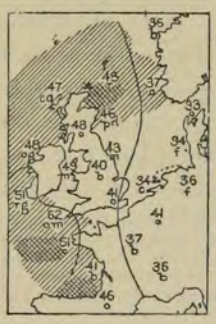
Weather dull at the north-western and some south-eastern stations, fine elsewhere, but with fog over central England. Rain falling in W. later, but sky clearing in S.E.

Temperature fallen generally; readings ranging from 46° at Scilly to 30° at York.

Wind south-westerly or southerly in W. and N., north-westerly in S., and south-easterly on eastern shores of North Sea. Fresh in N.W. and N., with strong gale Stornoway.

Sea rough or high generally, except in the S.E.

Barometer falling Sweden, rising elsewhere. Readings relatively high over Sweden and the N. of Spain, with a depression lying off our N.W. coasts. Rise of barometer continuing all day.

Wednesday, January 17.

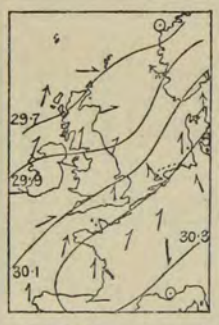
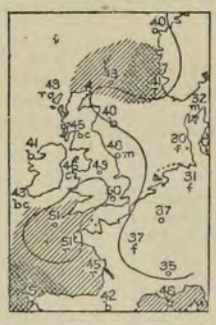
Weather fine in some parts of France, cloudy or overcast elsewhere, with rain in the S. of Ireland. Rain subsequently extending to most stations.

Temperature risen except France; readings ranging from 52° at Scilly to 36° at Dover. Maxima high for time of year.

Wind south-westerly or southerly; strong to a gale in the N., but moderate or fresh elsewhere. Increasing to strong breeze in Ireland later.

Sea high at Wick, rough off the N. of Scotland and W. of Ireland.

Barometer falling N. of Scotland, rising elsewhere. Distribution of pressure similar to that of previous day, but new depression advancing towards S. of Ireland later, occasioning fresh fall of barometer in S.W.

Thursday, January 18.

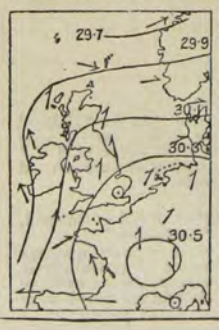
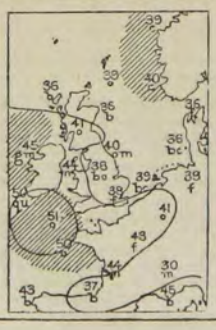
Weather fine in the W. and N., cloudy or overcast elsewhere, with rain in many places. General improvement taking place later.

Temperature fallen several degrees W. and N., risen elsewhere; readings ranging from 51° at Scilly to 38° at Wick. Maxima again very high in S.

Wind still southerly or south-westerly and light to fresh in force. Subsequently veering to westward in many places.

Sea rough in the S.W.

Barometer falling slightly in Scandinavia and the south-east of England, rising elsewhere. Highest pressure (30·4 ins.) now over France, and depression of previous day passing away to northward of Scotland.

Friday, January 19.

Weather fine in the N. and E. of Scotland, cloudy elsewhere, with rain at several south-western stations, and fog in the S.E. of England. Dull, rainy weather subsequently becoming general.

Temperature risen W., fallen elsewhere; readings ranging from 51° at Scilly to 36° at Wick, Nairn, and Aberdeen. Brisk rise taking place in E. and N. later.

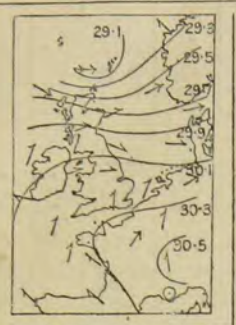
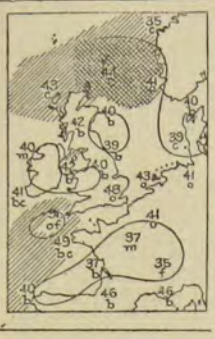
Wind westerly in extreme N., southerly elsewhere: light or moderate at all but south-western stations, where strong. Subsequently blowing fresh or strong gale from S. in W. and N. generally, but veering to W. in Ireland in evening.

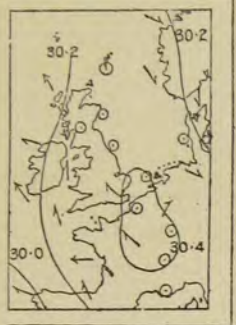
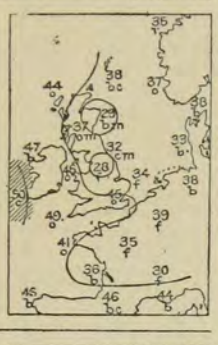
Sea rough off the W. of Ireland and at the mouth of the Channel.

Barometer rising except S.W. Anticyclone over central France, and deep depression skirting our extreme western and northern coasts, occasioning general fall of the mercury later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, January 20.

Weather dull in the S., but much finer at all the more northern stations.

Temperature risen extreme N., fallen elsewhere; readings ranging from 51° at Scilly to 32° at Parsonstown. Maximum at Oxford as high as 55°.

Wind strong to a gale from W. and N.W. in extreme N., light or moderate south-westerly or westerly elsewhere. Gales in N. subsequently lulling, and wind backing to S.E. in W.

Sea rough off the N. of Scotland and also at Scilly.

Barometer falling eastern shores off North Sea, rising elsewhere—quickly in N. Depression of previous day lying to northward of Shetlands in morning, but subsequently moving quickly eastwards. Fresh fall of barometer appearing in extreme W. at night.

Sunday, January 21.

Weather fine in N. and E., cloudy or overcast elsewhere, with drizzling rain and mist over central England.

Temperature fallen at all eastern stations, risen in W.; readings ranging from 50° at Valencia to 29° at Aberdeen and 28° at York.

Wind strong to gale from N. in Sweden, calm or light variable in our eastern districts, and moderate southerly or south-easterly in the W. South-easterly breeze extending to E. coasts later.

Sea rough Valencia, slight or smooth elsewhere.

Barometer falling a little over Bay of Biscay as well as at Valencia, rising elsewhere—quickly in N. Depression of Friday now disappearing over Russia, and anticyclone extending from France to our S.E. coasts. Mercury subsequently rising generally.

Monday, January 22.

Weather fine in Norway, Denmark, and the E. of Scotland, dull elsewhere, with mist or fog in many places. Cloudy weather extending to Scotland later.

Temperature risen at all but the southern and Continental stations; readings ranging from 51° at Valencia to 34° at Nairn.

Wind still blowing gale from N. on shores of Baltic, but generally light or moderate from S. and S.E. in our Islands. Wind subsequently increasing in extreme W. and N.W.

Sea rather rough at Stornoway and Scilly.

Barometer rising generally, and large area of high pressure extending from Scandinavia down the North Sea to the Netherlands. Fall of mercury taking place in extreme W. in evening.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟫⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	47	35	45·4	36·7	41·1	+1·9	5	0·93	+0·28	*	*
	Stornoway	49	34	47·1	37·9	42·5	+3·7	4	1·22	−0·04	13	26
	Wick	48	34	45·1	37·6	41·4	+3·1	3	0·46	+0·04	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	42	52·7	46·4	49·6	+3·7	4	0·32	−0·83	*	*
	Jersey (Noirmont)	51	34	46·4	41·4	43·9	+1·9	3	0·19	−0·56	11	18

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	51	29	44·6	35·0	39·8	+ 2·5	3	0·32	−0·21	*	*
	Aberdeen	49	28	46·0	33·3	39·7	+ 2·6	2	0·34	−0·29	19	17
	Leith	56	28	49·3	34·7	42·0	+ 4·4	3	0·62	+0·14	*	*
2. ENGLAND, N.E.	Alnwick Castle	50	28	44·6	33·7	39·2	+ 1·9	4	0·21	?	*	*
	Shields	51	30	46·3	35·3	40·8	+ 2·5	3	0·08	−0·34	*	*
	Durham	51	27	45·0	33·6	39·3	+ 2·3	4	0·15	−0·28	12	22
	Scarborough ⚓	51	33	45·3	37·2	41·3	+ 3·6	2	0·06	−0·35	*	*
	York	51	26	46·4	31·6	39·0	+ 1·1	2	0·18	−0·23	10	18
	Spurn Head	51	35	45·3	37·1	41·2	+ 2·6	2	0·03	?	*	*
3. ENGLAND, E.	Hillington ⚓	52	25	46·0	31·6	38·8	+ 1·8	3	0·12	−0·31	8	14
	Yarmouth	49	32	44·3	35·0	39·7	+ 1·1	3	0·10	−0·50	*	*
	Geldeston	51	28	45·6	34·0	39·8	+ 1·5	4	0·09	−0·31	15	26
	Cambridge	52	30	47·3	33·9	40·6	+ 2·9	4	0·28	−0·07	10	17
	Rothamsted	53	30	48·0	36·6	42·3	+ 4·6	5	0·30	−0·49	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	26	47·0	33·7	40·4	+ 2·0	2	0·10	−0·32	*	*
	Loughborough	55	28	48·3	35·6	42·0	+ 4·6	1	0·13	−0·41	*	*
	Leicester	54	28	47·4	35·0	41·2	+ 4·0	3	0·11	−0·39	7	13
	Birmingham (Oscott)	53	34	47·7	36·5	42·1	+ 5·3	2	0·13	−0·57	*	*
	Cheadle ⚓	51	33	46·0	35·2	40·6	+ 3·7	3	0·32	?	*	*
	Churchstoke ⚓										*	*
	Hereford ⚓	54	28	50·0	35·6	42·8	+ 4·2	5	0·16	−0·59	*	*
	Cirencester	52	32	48·1	37·1	42·6	+ 4·4	5	0·46	−0·45	12	21
	Oxford	55	36	50·0	40·0	45·0	+ 6·3	4	0·35	−0·25	8	14
5. ENGLAND, S.	London†	53	31	48·6	38·0	43·3	+ 4·4	5	0·14	−0·43	2	3
	Marlborough ⚓	52	33	47·8	38·5	43·2	+ 5·2	5	0·53	−0·32	8	14
	Strathfield Turgiss ⚓	51	32	48·5	37·4	43·0	+ 4·5	6	0·22	−0·49	*	*
	Dover	48	35	46·4	40·4	43·4	+ 3·8	4	0·36	−0·39	*	*
	Hastings (St. Leonard's)	48	35	46·9	41·1	44·0	+ 4·3	5	0·30	−0·43	5	8
	Southampton	51	32	49·2	39·3	44·3	+ 5·3	5	0·41	?	6	10
	Hurst Castle	51	35	49·6	41·7	45·7	+ 5·0	5	0·19	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	51	36	47·2	38·9	43·1	+ 3·9	5	2·58	?	*	*
	Glasgow	50	35	45·9	38·0	42·0	+ 3·7	5	1·38	+0·15	7	13
	Ardrossan	49	35	46·4	38·9	42·7	+ 3·5	4	1·19	+0·01	*	*
	Silloth (Cumberland)	49	30	46·0	37·9	42·0	+ 3·5	3	0·74	−0·17	12	22
	Douglas (Isle of Man)	49	31	47·0	37·6	42·3	+ 2·0	4	1·05	−0·24	14	25
7. ENGLAND, N.W.	Barrow-in-Furness	49	35	45·9	37·9	41·9	+ 1·9	5	0·89	?	*	*
	Stonyhurst	50	28	46·8	35·3	41·1	+ 2·8	6	0·86	−0·16	10	18
	Blackpool ⚓	51	30	46·3	35·3	40·8	+ 0·5	4	0·92	+0·20	14	25
	Manchester										*	*
	Liverpool Obsy (Bidston)	54	35	47·3	38·1	42·7	+ 3·0	4	0·57	+0·01	*	*
	Llandudno ⚓	54	33	49·0	39·3	44·2	+ 2·9	2	0·37	−0·48	16	29
	Holyhead	50	39	48·1	41·0	44·6	+ 2·3	5	0·80	−0·12	*	*
8. ENGLAND, S.W.	Pembroke	50	38	48·0	42·9	45·5	+ 3·0	6	0·65	−0·50	20	35
	Arlington (N. Devon)	?52	30	?48·0	38·4	?43·2	? + 3·0	5	0·78	?	*	*
	Cullompton ⚓	53	27	49·7	39·2	44·5	+ 3·5	4	0·36	?	7	12
	Falmouth	53	39	50·7	45·3	48·0	+ 4·8	4	0·48	−0·51	15	25
	Plymouth	53	31	50·9	41·3	46·1	+ 3·6	5	0·27	−0·88	10	17
	Prawle Point	51	36	49·3	42·4	45·9	+ 4·0	4	0·13	?	*	*
9. IRELAND, N.	Londonderry	53	34	51·0	38·4	44·7	+ 4·1	6	0·78	−0·21	*	*
	Mullaghmore	53	37	50·6	39·4	45·0	+ 2·9	5	0·69	?	*	*
	Markree Castle	51	29	49·3	36·6	43·0	+ 1·4	5	0·26	−0·49	14	25
	Brookeborough	51	32	48·3	38·8	43·6	+ 3·6	6	1·38	?	*	*
	Armagh	51	35	48·2	39·1	43·7	+ 4·0	6	0·78	+0·07	16	29
	Donaghadee	51	34	47·3	37·4	42·4	+ 2·0	5	0·73	?	*	*
10. IRELAND, S.	Dublin	55	36	50·6	40·3	45·5	+ 4·9	3	0·28	−0·32	22	39
	Parsonstown	52	31	50·0	35·4	42·7	+ 2·8	6	1·21	+0·41	14	25
	Waterford	51	29	48·4	34·1	41·3	− 0·2	6	0·85	−0·41	*	*
	Roche's Point	53	33	51·1	36·9	44·0	+ 1·1	7	1·74	+0·25	*	*
	Valencia	54	35	52·6	41·0	46·8	+ 1·7	6	1·85	+0·15	8	13
	Foynes										*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

METEOROLOGICAL OFFICE,
116, VICTORIA STREET, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JANUARY 29, 1883.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	53	30	41	33	37	1 below.	6	12	7 more.	16	29
	2. ENGLAND, N.E.	53	29	42	34	38	0 (average).	6	9	2 more.	12	20
	3. ENGLAND, E.	55	27	44	33	39	0 (average).	5	10	5 more.	22	37
	4. MID. COUNTIES	54	25	45	33	39	1 above.	6	16	10 more.	17	28
	5. ENGLAND, S.	53	27	46	35	40	1 above.	6	12	6 more.	18	29
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	50	32	44	36	40	1 above.	7	28	12 more.	8	14
	7. ENGLAND, N.W.	53	30	45	35	40	0 (average).	7	26	18 more.	7	11
	8. ENGLAND, S.W.	54	31	49	38	44	1 above.	6	17	7 more.	7	11
	9. IRELAND, N.	56	31	46	35	41	0 (average).	7	29	14 more.	9	15
	10. IRELAND, S.	57	31	50	38	44	2 above.	7	28	17 more.	9	15

General Remarks.

Weather, with the exception of a few bright intervals, has been dull, and exceedingly stormy, with frequent and heavy falls of rain, sleet, or hail.

Temperature has been a few degrees lower than during last week in nearly all places, and has differed very little from the mean for the season in any part of the Kingdom. In "Scotland, E." it has been 1° below the mean and in "Ireland, S." 2° above, but in all other districts the readings have been about equal to the normal value or 1° above it. The thermometer was highest towards the end of the period, when it rose to 55° in "England, E.", 56° in "Ireland, N.", and to 57° in "Ireland, S." The minima, which were registered on different days in the various districts, ranged from 25° in the "Midland Counties" to 32° in "Scotland, W."

Rainfall has been more than the mean in all parts of the country, the excess in most of the western districts being very large.

Bright sunshine shows a slight increase at most of our eastern stations and a decrease in the W. and S.W. The percentages of possible duration ranged from 37 in "England, E." to 11 in the W. of England.

Depressions observed.—During this period pressure over our Islands and Scandinavia has undergone rapid and considerable changes, while over the S. of France it has been comparatively high and steady. Several well defined and deep depressions have appeared over us from the Atlantic, and, following each other in quick succession, have occasioned very strong squally gales over the whole Kingdom—from S. or S.W. as they advanced, and from W. or N.W. as they disappeared to the eastward. The most important disturbances were those of Thursday night and Saturday.

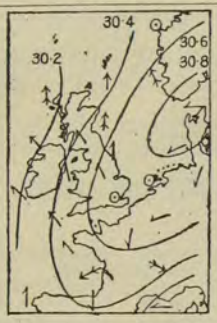
R 5288*a*. 470.—2/83. Wt. 233. E. & S.

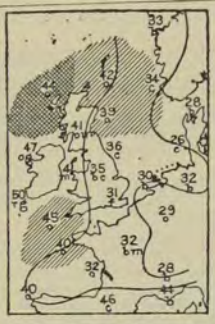
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending January 29, 1883.

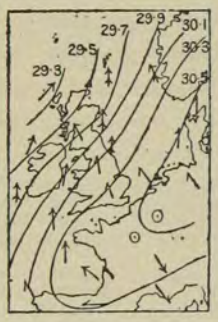
Synoptic Weather Charts.—8 a.m.

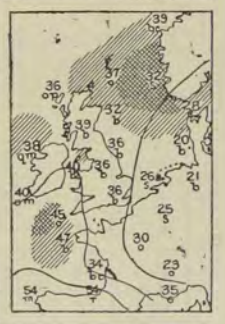
BAROMETER AND WIND.

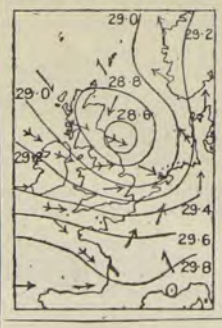
CLOUD, RAIN, SEA, AND TEMPERATURE.

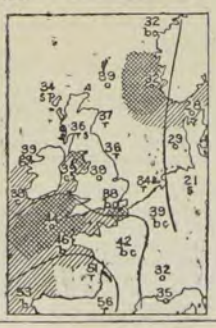












Weather during the 24 hours succeeding the date of the Charts.

Tuesday, January 23.

Weather overcast in the W. and N., with rain in S. Ireland; fair in E. Rain subsequently falling at all western and northern stations.

Temperature fallen generally; readings ranging from 50° at Valencia to 31° at Cambridge and in London. Maxima over Great Britain lower than of late.

Wind moderate north-easterly in Denmark and the Netherlands, easterly in France, and south-easterly on our more southern coasts, but strong to gale from S. in Scotland. Blowing strongly in W. later.

Sea rough on our N. coasts.

Barometer falling slightly W. and N., rising elsewhere. Readings highest (30·8 in.) over the S. of Scandinavia, and large depressions passing along in a northerly direction outside our extreme western coasts. Fall in W. becoming more rapid later.

Wednesday, January 24.

Weather dull and rainy at all but the south-eastern and Continental stations. Rain subsequently extending to S.E., and becoming very heavy in N.W.

Temperature risen W. and N., fallen elsewhere; readings ranging from 51° at Valencia to 31° at Cambridge. Maxima higher than on previous day.

Wind varying between S.E. and S.W.; strong to a gale in W. and N. generally, but moderate in S.E. Subsequently veering to W. in Ireland and the W. of Scotland, and falling moderate.

Sea high or rough in W. and N.

Barometer falling at all stations, and depressions in W. advancing nearer the Irish and Scotch coasts. Centre of one of these lying off N. Scotland in evening, and barometer rising in Ireland.

Thursday, January 25.

Weather fair generally in morning, but heavy rain setting in at western stations in afternoon, and subsequently extending over whole country.

Temperature fallen several degrees except in S.E.; readings ranging from 45° at Scilly to 32° at Nairn and Aberdeen. Brisk rise taking place in W. later.

Wind moderate generally, south-westerly in N., and north-westerly in S., but westerly at intermediate stations. Subsequently backing to S.W. at all stations, and blowing strong gale over Ireland and England at night.

Sea rough on many parts of our western and northern coasts.

Barometer rising W. and N., falling elsewhere. Depressions of previous day now passing away to northward of Scotland, but new and deep disturbance appearing over Ireland in evening and travelling rapidly east-north-eastwards.

Friday, January 26.

Weather dull and rainy in the E. and N., with rain or snow, but fair at most western and southern stations. Showers of hail or rain in W. later.

Temperature fallen W., risen slightly E.; readings ranging from 44° at Scilly to 33° at Nairn and Parsonstown. Maxima low in N.

Wind light and variable in extreme N., but strong to a gale from W. or N.W. elsewhere. Gale gradually subsiding later.

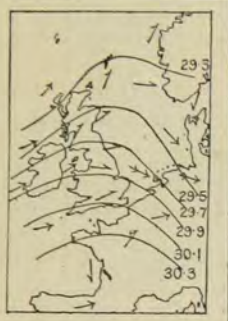
Sea rough or high in the W., S., and N.E.

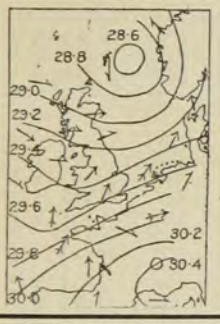
Barometer rising in W., falling elsewhere. Deep depression lying off Northumberland coast in morning, but subsequently moving away north-eastwards, and barometer rising briskly generally.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Saturday, January 27.

Weather fine in France and Scotland, cloudy or overcast elsewhere, with rain in many places. Rainy weather subsequently extending to Scotch stations.

Temperature risen S., and ranging from 50° at Scilly to 31° at Wick. Further rise taking place in S. later.

Wind light and somewhat variable in Scotland, generally south-westerly elsewhere; strong to a gale in S.W. Very strong south-westerly or westerly gale blowing at all but extreme northern stations later.

Sea very high at Scilly, high on the western and southern coasts generally.

Barometer falling quickly in Scandinavia and also on our western coasts, rising elsewhere. Depression of previous day now over the S. of Norway, but fresh and deep disturbance appearing off the W. of Ireland and afterwards travelling in an east-north-easterly direction across the country.

Sunday, January 28.

Weather fine at the French and all our more southern stations, cloudy elsewhere, with snow or hail on our N.W. coasts and in some parts of Scandinavia. Cloud and rain extending over all parts of our Islands later.

Temperature risen slightly most places; readings ranging from 48° in the S.W. to 35° at Aberdeen.

Wind north-westerly in Denmark, south-westerly or westerly elsewhere: fresh or strong in force generally. Again rising to a gale in Ireland and England later.

Sea rough in the W. and S.

Barometer rising generally, and depression of Saturday now off the E. coast of Denmark. Deep disturbance appearing in W. in evening and barometer again falling at all stations.

Monday, January 29.

Weather cloudy or overcast generally, with rain in many places. Some improvement taking place in E. and N. later.

Temperature rising except in W.; readings ranging from 53° at Scilly, Loughborough, and Cambridge to 35° at Stornoway and Wick. Maxima high at all English stations.

Wind fresh or strong westerly in N., but strong to a gale from S.W. in S. Gale subsiding later and winds falling moderate generally.

Sea rough or high except in E.

Barometer falling except W. Well defined depression between the Shetlands and W. coast of Norway, and subsidiary disturbance over S.W. of England. Both moving away later and mercury rising again generally.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇉ = a heavy gale; ⇒ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	43	33	41·0	35·3	38·2	−1·0	7	2·25	+1·54	*	*
	Stornoway	48	31	40·4	34·7	37·6	−1·2	7	1·44	+0·08	3	6
	Wick	44	26	39·3	33·1	36·2	−2·1	5	1·37	+0·68	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	36	51·0	40·4	45·7	−0·2	7	1·40	+0·40	*	*
	Jersey (Noirmont)	51	32	47·9	36·4	42·2	+0·2	6	1·29	+0·53	16	25

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	44	30	39·3	32·9	36·1	− 1·7	6	0·94	+0·45	*	*
	Aberdeen	47	31	41·1	33·1	37·1	− 0·5	6	1·81	+1·16	16	29
	Leith	53	30	43·6	33·6	38·6	+ 0·5	7	0·96	+0·56	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	32	40·4	33·9	37·2	− 0·6	7	1·05	?	*	*
	Shields	52	32	42·3	33·6	38·0	− 0·7	5	0·72	+0·12	*	*
	Durham	51	29	40·8	32·7	36·8	− 0·7	5	0·76	+0·06	13	23
	Scarborough ⚓	53	30	41·5	33·9	37·7	− 0·4	5	0·71	+0·03	*	*
	York	53	30	44·4	34·1	39·3	+ 0·9	6	1·22	+0·62	?10	?17
	Spurn Head	52	32	43·4	34·7	39·1	+ 0·2	5	0·83	?	*	*
3. ENGLAND, E.	Hillington ⚓	54	27	43·0	31·8	37·4	− 0·3	5	1·20	+0·60	18	31
	Yarmouth	52	31	43·9	33·1	38·5	− 0·4	5	0·98	+0·29	*	*
	Geldeston	53	30	43·8	33·8	38·8	− 0·1	5	0·93	+0·42	26	43
	Cambridge	55	27	46·3	32·1	39·2	+ 1·0	5	0·69	+0·28	23	38
	Rothamsted	52	27	44·5	32·3	38·4	+ 0·3	7	1·37	+0·77	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	25	44·1	31·4	37·8	− 1·2	6	1·46	+0·96	*	*
	Loughborough	54	31	45·9	33·4	39·7	+ 1·6	5	1·61	+1·06	*	*
	Leicester	53	31	44·2	33·8	39·0	+ 1·1	5	1·14	+0·57	18	31
	Birmingham (Oscott)	52	31	44·1	32·6	38·4	+ 0·9	5	1·59	+0·95	*	*
	Cheadle ⚓	52	30	42·9	32·5	37·7	+ 0·1	6	1·77	?	*	*
	Churchstoke ⚓	52	32	45·5	33·4	39·5	+ 0·7	6	2·42	?	13	22
	Hereford ⚓	54	32	47·2	35·2	41·2	+ 1·1	6	1·45	+0·74	*	*
	Cirencester	52	31	45·6	32·4	39·0	+ 0·3	6	1·68	+0·91	16	27
	Oxford	54	33	47·3	34·7	41·0	+ 1·8	5	1·10	+0·55	20	33
5. ENGLAND, S.	London†	53	30	46·7	33·0	39·9	+ 0·4	5	0·82	+0·26	15	25
	Marlborough ⚓	51	32	44·7	33·6	39·2	+ 0·7	6	1·70	+1·00	15	25
	Strathfield Turgiss ⚓	52	27	46·3	32·0	39·2	+ 0·1	6	1·29	+0·71	*	*
	Dover	50	32	44·7	34·3	39·5	− 0·7	5	0·52	−0·28	*	*
	Hastings (St. Leonard's)	50	34	45·3	36·5	40·9	+ 0·7	5	1·15	+0·46	24	39
	Southampton	51	34	46·9	36·0	41·5	+ 1·8	6	1·85	?	16	26
	Hurst Castle	52	35	48·0	37·7	42·9	+ 1·7	6	0·98	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	48	32	42·7	35·0	38·9	− 0·4	7	5·29	?	*	*
	Glasgow	50	33	43·2	34·5	38·9	+ 0·3	7	2·66	+1·55	7	13
	Ardrossan	47	33	43·4	36·6	40·0	+ 0·7	7	2·75	+1·75	*	*
	Silloth (Cumberland)	50	33	43·2	35·8	39·5	+ 0·3	7	1·67	+0·92	8	14
	Douglas (Isle of Man)	50	33	46·2	37·5	41·9	+ 1·4	6	1·72	+0·59	9	16
7. ENGLAND, N.W.	Barrow-in-Furness	49	34	43·3	35·7	39·5	− 0·7	7	3·60	?	*	*
	Stonyhurst	51	30	45·8	33·7	39·8	+ 1·2	7	2·67	+1·58	7	12
	Blackpool ⚓	51	31	43·5	34·0	38·8	− 1·8	7	2·40	+1·65	8	14
	Manchester	53	31	43·8	33·3	38·6	− 0·6	6	2·34	+1·55	*	*
	Liverpool Obsy (Bidston)	53	34	44·3	36·3	40·3	+ 0·1	6	2·05	+1·57	*	*
	Llandudno ⚓										5	8
	Holyhead	51	35	46·3	38·1	42·2	− 0·2	7	2·19	+1·24	*	*
8. ENGLAND, S.W.	Pembroke	50	38	47·7	40·7	44·2	+ 1·4	7	1·75	+0·75	8	13
	Arlington (N. Devon)	53	31	48·1	35·4	41·8	+ 1·2	6	2·01	?	*	*
	Cullompton ⚓	54	34	49·3	36·8	43·1	+ 1·9	6	1·44	?	7	11
	Falmouth	53	36	50·0	40·3	45·2	+ 1·9	7	2·42	+1·43	6	10
	Plymouth	53	36	50·3	38·1	44·2	+ 1·4	6	1·35	+0·38	5	8
	Prawle Point	51	31	48·6	36·0	42·3	0·0	6	0·91	?	*	*
9. IRELAND, N.	Londonderry	56	32	49·1	34·8	42·0	+ 1·4	7	3·61	+2·71	*	*
	Mullaghmore	53	33	46·9	38·0	42·0	+ 0·1	7	3·49	?	*	*
	Markree Castle	52	31	47·1	34·0	40·6	− 0·7	7	0·83	+0·11	5	9
	Brookeborough	52	32	44·7	33·7	39·2	− 0·8	7	4·70	?	*	*
	Armagh	51	32	44·9	34·3	39·6	− 0·4	7	2·42	+1·72	12	21
	Donaghadee	48	33	43·3	36·0	39·7	− 0·7	7	2·41	?	*	*
10. IRELAND, S.	Dublin	54	33	49·0	36·8	42·9	+ 1·8	7	1·40	+0·86	12	20
	Parsonstown	57	31	47·9	36·4	42·2	+ 2·0	7	2·70	+1·94	6	10
	Waterford										*	*
	Roche's Point	52	35	50·6	39·6	45·1	+ 1·8	7	3·64	+2·31	*	*
	Valencia	54	33	51·7	39·6	45·7	+ 0·6	7	3·27	+1·77	9	15
	Foynes										*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, FEBRUARY 5, 1883.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861–80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866–75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	49	25	43	32	37	1 below.	4	6	1 more.	15	26
	2. ENGLAND, N.E.	50	24	42	34	38	1 below.	3	5	1 less.	11	17
	3. ENGLAND, E.	51	24	45	33	39	0 (average).	4	5	1 less.	30	49
	4. MID. COUNTIES	51	25	44	33	39	1 below.	3	6	1 less.	17	28
	5. ENGLAND, S.	53	26	46	36	41	1 above.	3	7	0 (average).	23	37
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	49	27	42	35	39	1 below.	5	6	5 less.	7	12
	7. ENGLAND, N.W.	51	25	44	35	39	2 below.	4	5	4 less.	11	17
	8. ENGLAND, S.W.	51	26	47	35	41	2 below.	5	17	7 more.	21	34
	9. IRELAND, N.	51	23	42	33	38	3 below.	6	5	2 less.	5	8
	10. IRELAND, S.	52	23	46	33	40	3 below.	5	16	5 more.	10	16

General Remarks.

Weather, though still dull and unsettled on most days, has been less rainy than during last week.

Temperature has been a little above the mean in "England, S." and equal to it in "England, E.", but in all other districts it has ranged from 1° to 3° below. The maxima, which were registered either on the 4th or 5th, varied from 49° in Scotland to 53° in "England, S." The minima were generally recorded on January 31st or February 1st, when the thermometer fell to 23° in Ireland, and to between 24° and 27° elsewhere.

Rainfall has been more than the mean in "Scotland, E.", "England, S.W.", and "Ireland, S.", and about equal to it in "England, S.", but less in all other districts.

Bright sunshine shows an increase in duration over the greater part of England, but a slight decrease in most parts of Ireland and Scotland. The percentages ranged from 49 in "England, E." to 12 in "Scotland, W." and 8 in "Ireland, N."

Depressions observed.—Barometrical pressure over our area has again been subject to sudden and rapid changes. At the commencement of the period the barometer was highest in France and lowest over Scandinavia, the winds in our Islands being moderate or fresh from the westward. By the morning of the 31st, however, a deep depression had advanced to the Bay of Biscay, and, travelling quickly over France, disappeared over Switzerland or the Gulf of Genoa. Under its influence the wind in Ireland and England shifted to E. or S.E., and in the extreme S.W. increased to the force of a gale. This depression was soon succeeded by another and still deeper one, which at 6 P.M. on the 1st was shown off the S. of Ireland. During the two following days it travelled over our Islands and the North Sea in an east-north-easterly direction, causing very strong southerly and westerly gales in the S. and S.E., easterly gales in the N., and northerly and north-westerly gales in the W. As this disturbance moved away over Scandinavia, the barometer in our Islands rose quickly, but at the end of the period increasing gradients for southerly winds were becoming general.

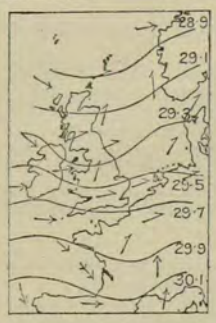
R 5440*a*. 470.—2/83. Wt. 233. E. & S.

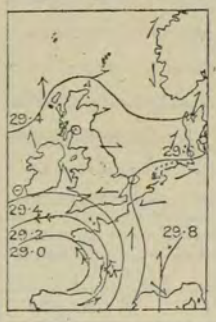
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending February 5, 1883.

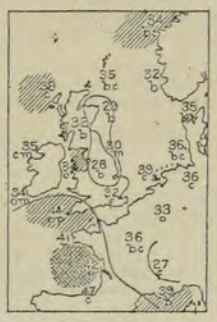
Synoptic Weather Charts.—8 a.m.

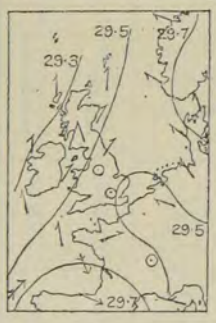
BAROMETER AND WIND.

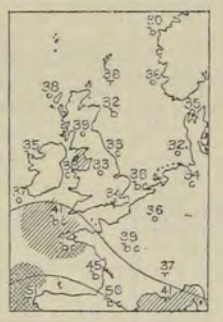
CLOUD, RAIN, SEA, AND TEMPERATURE.

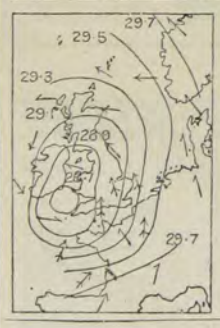


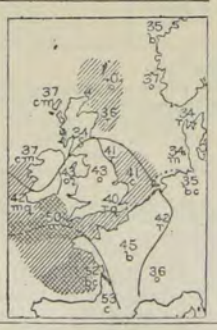












Weather during the 24 hours succeeding the date of the Charts.

Tuesday, January 30.

Weather fine over central and south-eastern England, cloudy elsewhere, with rain and hail showers in the S.W. Showers falling generally later, and lightning occurring at Dover in the evening.

Temperature fallen rapidly over England; readings ranging from 44° at Scilly to 34° at Wick, Aberdeen, Donaghadee, York, and Loughborough. Maxima lower than of late.

Wind moderate south-westerly in N. and E., strong westerly elsewhere, with gale in Bay of Biscay. Veering to W. generally later.

Sea rough in W. and S.

Barometer falling E. of France, rising elsewhere. Pressure highest Spain and the S. of France, and lowest to the northward of our Islands. Brisk fall subsequently taking place at Valencia, but mercury continuing to rise elsewhere.

Wednesday, January 31.

Weather dull and rainy in the W. of France, and showery at Scilly; generally fair elsewhere. Rain falling on our W. and S.W. coasts.

Temperature fallen generally; readings ranging from 44° at Scilly to 27° at Leith and Loughborough. Maxima below 40° at many British stations.

Wind light and variable in E. and N., but strong easterly in S.W., with a hard south-easterly gale over the Bay of Biscay. Strong southerly winds on our N.W. coasts later.

Sea high in the Bay of Biscay, rough in the western part of the Channel.

Barometer falling over France and our southern coasts, rising elsewhere. Deep depression over Bay of Biscay in morning, but subsequently moving away south-eastward or eastward, and barometer rising in S.W.

Thursday, February 1.

Weather fair at all but extreme northern stations, with fog in many parts of England. Rain subsequently falling in S.W., and gradually extending eastwards and northwards. Thunder and lightning in S.W. at night.

Temperature risen except in S. England; readings ranging from 41° at Scilly to 28° at Parsonstown. Maxima higher than on previous day.

Wind south-easterly and southerly in W. and N., and also on eastern shores of North Sea, but light and variable in E. and S. Increasing to gale from S.E. in W. and S. later.

Sea rough in S.W.

Barometer falling W. and N., rising elsewhere. Areas of relatively high readings lying over the Baltic and Spain, with lowest pressures off our W. coasts. Deep depression subsequently advancing to our S.W. coasts, and barometer falling quickly generally.

Friday, February 2.

Weather dull and rainy at all but the French stations. Some improvement taking place in W. later.

Temperature risen several degrees. Readings ranging from 50° at Scilly to 34° at Nairn.

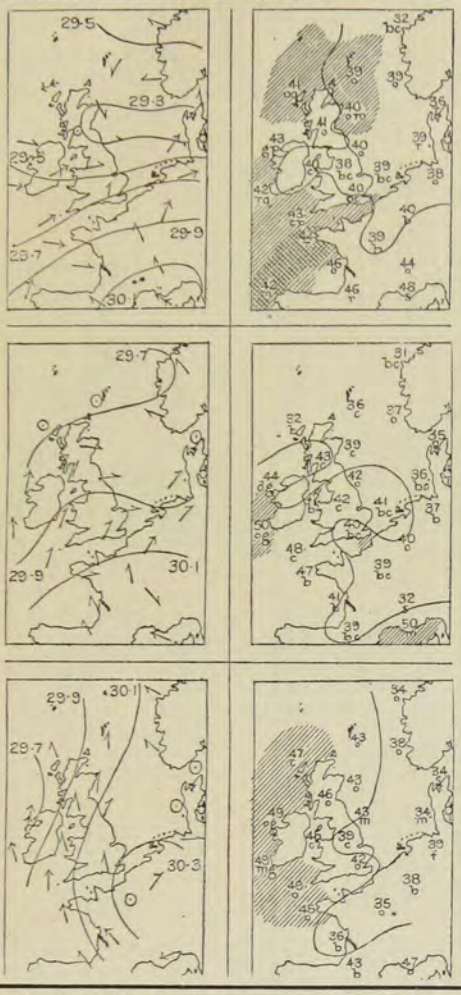
Wind westerly in Bay of Biscay, southerly in Channel, south-easterly on our E. coasts, easterly in the N., and northerly in Ireland. Strong to a gale at all the more southern stations. Easterly gale in Scotland later.

Sea rough on all but our N.W. coasts.

Barometer falling except S. Ireland, and centre of deep depression shown over St. George's Channel. Disturbance moving north-eastwards later, and mercury rising quickly in W. and S.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, February 3.

Weather fair in the S.E., cloudy and unsettled elsewhere, with showers in the S.W. Showers falling generally later.

Temperature risen N. and W., fallen elsewhere; readings ranging from 43° at Pembroke, Scilly, and Hurst Castle to 37° at Parsonstown, Donaghadee, and Loughborough.

Wind south-easterly in Scandinavia and easterly in the N. of Scotland, but westerly or south-westerly elsewhere; fresh or strong in force at most stations, but moderating generally later.

Sea rough on the northern, north-eastern, and all southern coasts.

Barometer falling on eastern shores of North Sea, rising elsewhere. Depression of previous day now a little to the westward of Denmark, and subsidiary disturbance near Scotland. Both moving away eastward later, and mercury rising generally.

Sunday, February 4.

Weather very cloudy in Ireland, with showers at Mullaghmore and Roche's Point; fair in other districts. Cloud extending eastwards and northwards later.

Temperature fallen several degrees in the N. of Scotland; readings ranging from 50° at Valencia to 32° at Stornoway and Wick. Brisk rise subsequently taking place in N.

Wind moderate westerly in S. and E., fresh southerly in W. Wind backing generally later, and increasing in W.

Sea rough at Valencia, moderate or smooth elsewhere.

Barometer rising at all stations excepting Valencia, where slight fall. Fall extending to some other western stations later.

Monday, February 5.

Weather fine in the S. and S.E., cloudy or overcast elsewhere. Heavy rain falling at Valencia later.

Temperature risen quickly W. and N.; readings ranging from 49° at Mullaghmore, Valencia, and Scilly to 36° at Cambridge. Falling slightly in W. later.

Wind generally southerly; light in E., strong to a gale in extreme W. and N.W.

Sea rough on many parts of our western and northern coasts.

Barometer falling a little in W., rising elsewhere. Areas of high pressure over Sweden and the N.E. of France, and depressions passing along some distance to the westward of Ireland and Scotland. Fall in W. becoming more pronounced later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	46	31	41·6	33·4	37·5	−1·7	4	0·53	−0·17	*	*
	Stornoway	48	28	42·7	31·4	37·1	−2·4	6	0·30	−1·02	8	14
	Wick	45	26	40·6	31·4	36·0	−2·6	4	0·64	+0·03	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	36	48·7	40·0	44·4	−1·6	5	1·24	+0·14	*	*
	Jersey (Noirmont)	48	35	45·9	39·0	42·5	+0·2	5	0·87	+0·10	32	49

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	49	28	41·4	30·9	36·2	− 2·0	3	0·46	−0·63	*	*
	Aberdeen	47	28	43·4	32·4	37·9	0·0	4	1·00	+0·35	15	26
	Leith	49	25	43·0	31·6	37·3	− 1·3	4	0·40	0·00	*	*
2. ENGLAND, N.E.	Alnwick Castle	45	26	41·0	33·0	37·0	− 1·2	3	1·08	?	*	*
	Shields	47	29	42·6	34·0	38·3	− 0·7	2	0·65	+0·12	*	*
	Durham	48	24	40·7	32·0	36·4	− 1·8	2	0·48	−0·12	11	18
	Scarborough ℳ	47	31	42·2	35·5	38·9	+ 0·4	2	0·39	−0·21	*	*
	York	50	28	44·4	33·3	38·9	+ 0·1	3	0·32	−0·21	10	16
	Spurn Head	45	33	42·9	35·3	39·1	+ 0·1	3	0·22	?	*	*
3. ENGLAND, E.	Hillington ℳ	48	25	44·7	32·1	38·4	0·0	4	0·47	−0·06	27	44
	Yarmouth	47	30	43·6	33·7	38·7	− 0·8	3	0·23	−0·42	*	*
	Geldeston	50	28	46·2	33·5	39·9	+ 0·3	4	0·34	−0·14	34	55
	Cambridge	51	26	46·1	31·6	38·9	− 0·2	2	0·30	−0·10	29	49
	Rothamsted	51	24	44·4	32·4	38·4	− 0·4	7	1·10	+0·46	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	48	25	43·7	32·0	37·9	− 1·6	3	0·28	−0·19	*	*
	Loughborough	49	26	45·1	32·9	39·0	+ 0·2	3	0·33	−0·23	*	*
	Leicester	50	30	43·8	34·0	38·9	+ 0·3	4	0·41	−0·14	21	34
	Birmingham (Oscott)	50	26	42·3	31·4	36·9	− 1·4	3	0·57	−0·11	*	*
	Cheadle ℳ	48	25	42·3	31·5	36·9	− 1·3	4	0·51	?	*	*
	Churchstoke ℳ	51	27	44·5	32·8	38·7	− 0·7	4	1·45	?	15	25
	Hereford ℳ	51	28	46·2	33·3	39·8	+ 0·1	4	1·16	+0·41	*	*
	Cirencester	48	27	44·1	31·9	38·0	− 1·2	3	0·68	+0·16	18	29
	Oxford	51	28	46·3	34·0	40·2	+ 0·5	3	0·58	+0·01	15	24
5. ENGLAND, S.	London†	52	29	47·4	35·0	41·2	+ 1·1	2	0·60	−0·05	15	24
	Marlborough ℳ	48	28	43·5	33·6	38·6	− 0·5	4	1·19	+0·39	21	33
	Strathfield Turgiss ℳ	49	26	45·9	32·4	39·2	− 0·6	3	0·79	+0·15	*	*
	Dover	49	32	45·7	37·6	41·7	+ 1·0	3	0·45	−0·35	*	*
	Hastings (St. Leonard's)	49	35	46·4	38·2	42·3	+ 1·6	4	0·41	−0·29	34	54
	Southampton	52	31	46·7	35·8	41·3	+ 1·0	5	0·85	?	22	35
	Hurst Castle	53	31	48·7	37·4	43·1	+ 1·5	3	0·87	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	48	30	42·5	35·0	38·8	− 0·6	6	0·54	?	*	*
	Glasgow	48	28	40·8	34·1	37·5	− 1·6	6	0·49	−0·64	6	10
	Ardrossan	46	31	42·7	34·7	38·7	− 0·7	6	0·63	−0·33	*	*
	Silloth (Cumberland)	49	27	41·6	34·2	37·9	− 1·8	3	0·37	−0·48	9	15
	Douglas (Isle of Man)	47	32	43·3	36·1	39·7	− 1·1	4	0·77	−0·43	7	11
7. ENGLAND, N.W.	Barrow-in-Furness	47	29	42·9	35·3	39·1	− 1·5	4	0·36	?	*	*
	Stonyhurst	47	25	42·2	33·3	37·8	− 1·2	5	0·62	−0·44	10	16
	Blackpool ℳ	47	27	45·0	33·8	39·4	− 1·5	3	0·27	−0·48	11	18
	Manchester	49	26	42·9	32·7	37·8	− 1·8	4	0·57	−0·30	*	*
	Liverpool Obs† (Bidston)	50	31	44·4	34·7	39·6	− 1·0	4	0·39	−0·13	*	*
	Llandudno ℳ	51	31	45·1	36·0	40·6	− 1·2	4	0·43	−0·43	11	18
	Holyhead	48	33	44·4	36·0	40·2	− 2·5	5	0·66	−0·31	*	*
8. ENGLAND, S.W.	Pembroke	48	33	45·7	38·1	41·9	− 1·2	5	1·43	+0·36	17	27
	Arlington (N. Devon)	50	27	45·1	32·6	38·9	− 2·0	4	2·13	?	*	*
	Cullompton ℳ	51	26	47·3	31·4	39·4	− 2·5	5	1·90	?	21	33
	Falmouth	50	36	46·8	38·6	42·7	− 0·9	5	2·56	+1·57	23	36
	Plymouth	51	29	48·2	34·3	41·3	− 1·8	5	1·24	+0·16	24	38
	Prawle Point	50	32	47·1	36·7	41·9	− 0·8	6	1·02	−0·06	*	*
9. IRELAND, N.	Londonderry	50	27	43·4	33·6	38·5	− 2·0	6	0·47	−0·48	*	*
	Mullaghmore	51	34	44·0	36·6	40·3	− 1·3	7	0·42	?	*	*
	Markree Castle	49	26	42·4	32·1	37·3	− 3·7	6	0·34	−0·39	6	10
	Brookeborough	48	23	40·9	32·4	36·7	− 3·2	4	0·83	?	*	*
	Armagh	49	24	40·1	32·7	36·4	− 4·0	4	0·69	−0·01	4	6
	Donaghadee	47	27	42·6	31·6	37·1	− 3·7	6	0·70	?	*	*
10. IRELAND, S.	Dublin	50	30	43·7	35·0	39·4	− 2·1	5	1·15	+0·45	6	10
	Parsonstown	50	27	43·4	30·9	37·2	− 2·9	3	0·61	−0·17	11	18
	Waterford	50	23	44·7	30·0	37·4	− 5·2	4	1·13	−0·08	*	*
	Roche's Point	51	28	48·7	34·7	41·7	− 1·9	5	1·88	+0·48	*	*
	Valencia	52	33	47·7	36·3	42·0	− 3·2	7	2·97	+1·47	13	21
	Foynes										*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

METEOROLOGICAL OFFICE,
116, VICTORIA STREET, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, FEBRUARY 12, 1883.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke. Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	48	31	43	35	40	1 above.	6	7	2 more.	14	23
	2. ENGLAND, N.E.	51	31	44	36	40	1 above.	7	11	7 more.	10	16
	3. ENGLAND, E.	51	32	47	37	42	2 above.	6	16	12 more.	15	22
	4. MID. COUNTIES	55	32	47	36	42	2 above.	7	19	14 more.	18	28
	5. ENGLAND, S.	55	32	49	40	44	3 above.	7	22	17 more.	16	24
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	49	31	45	37	41	1 above.	7	14	2 less.	22	34
	7. ENGLAND, N.W.	51	32	46	37	42	1 above.	7	11	4 more.	19	29
	8. ENGLAND, S.W.	52	33	50	40	45	2 above.	7	24	16 more.	15	23
	9. IRELAND, N.	53	32	45	36	41	0 (average).	7	14	7 more.	22	33
	10. IRELAND, S.	52	32	48	38	43	0 (average).	6	22	14 more.	21	33

General Remarks.

Weather has been rough, squally, and very wet in all parts of the Kingdom. A thunderstorm occurred at Prawle Point early on the 11th, and another, accompanied by hail, in the S. of Ireland on the 12th.

Temperature has been about equal to the mean in Ireland, and from 1° to 3° above it over Great Britain. The thermometer has been neither abnormally high nor very low, the maxima ranging from 48° in "Scotland, E.", to 55° in the "Midland Counties" and "England, S.", and the minima from 31° in Scotland and the N.E. of England, to 33° in "England, S.W."

Rainfall has been a little less than the mean in "Scotland, W.", but more in all other districts. In all parts of the country except the N. and N.W. the excess has been very large.

Bright sunshine has been less prevalent than during last week in the "Wheat-producing Districts", as well as in "England, S.W.", but more so elsewhere. The percentages of possible duration varied from 16 in "England, N.E." to 34 in "Scotland, W."

Depressions observed.—Barometric pressure over our Islands has again oscillated greatly. Several deep and extensive depressions have travelled in a northerly or north-north-easterly direction outside our western and north-western coasts, while over Scandinavia the barometer has been high and comparatively steady. South-easterly to south-westerly winds have consequently prevailed in our Islands, and at frequent intervals have increased to gales, which in many places have been very violent.

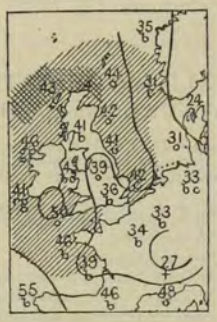
It 5584*a*. 470.—2/83. Wt. 233. E. & S.

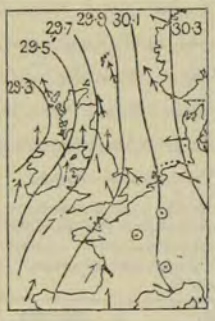
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending February 12, 1883.

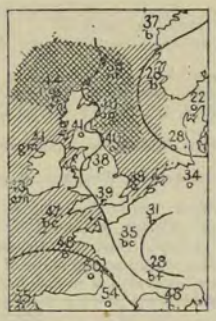
Synoptic Weather Charts.—8 a.m.

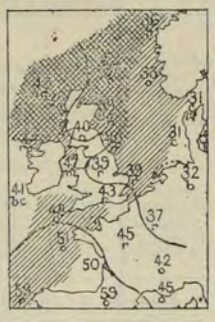
BAROMETER AND WIND.

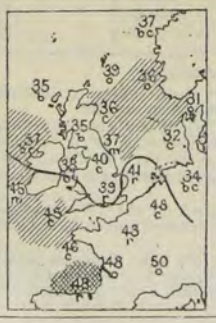
CLOUD, RAIN, SEA, AND TEMPERATURE.











Weather during the 24 hours succeeding the date of the Charts.

Tuesday, February 6.

Weather overcast in W., with rain and mist at Valencia; fair elsewhere. Dull rainy weather subsequently extending to all but south-eastern stations.

Temperature fallen slightly most stations; readings ranging from 50° at Scilly to 34° at Loughborough. Maxima over England lower than of late.

Wind moderate south-easterly over France and our southern coasts, but strong to a gale from S. in the W. and N. Gale becoming more violent in evening.

Sea high off the N. of Scotland, rough on all but our southern coasts.

Barometer rising Scandinavia and Denmark, falling elsewhere. Pressure highest (30·6 ins.) in Sweden, with a series of deep depressions passing northwards along our W. coasts. No important change later.

Wednesday, February 7.

Weather fair at many of the western and southern stations, and also in France; cloudy or overcast elsewhere, with rain in many places. Becoming dull and rainy in W. and S. later.

Temperature fallen several degrees W., risen slightly S.; readings ranging from 47° at Scilly to 36° at Loughborough. Maxima again high for time of year.

Wind moderate south-westerly in S., strong to a gale from S.E. or S. elsewhere. Wind backing to S.E. at Valencia later.

Sea very high off the N. and E. of Scotland, rough generally.

Barometer rising at some western stations, falling elsewhere. Pressure still highest Sweden, with a deep depression off our N.W. coasts. New depression appearing in W. later.

Thursday, February 8.

Weather dull and rainy at all but the south-western stations. Showers falling in S.W. later.

Temperature risen in S., little changed elsewhere; readings ranging from 50° at Prawle Point to 37° at Sumburgh Head.

Wind light westerly in the S.W., strong to a gale from S.E. in the N. and E. Gale subsequently subsiding in E.

Sea very high off the N. and E. of Scotland, rough on all our northern and eastern coasts as well as at Scilly.

Barometer rising in the S.W., falling elsewhere. New depression shown off the W. of Ireland in morning, but subsequently passing northwards, and mercury rising at all western stations.

Friday, February 9.

Weather rainy in the S.E. of England, fine elsewhere. Subsequently changing to dull and rainy at all western and northern stations, improving in S.E.

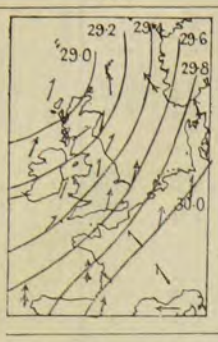
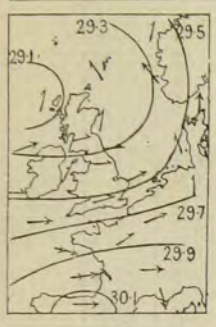
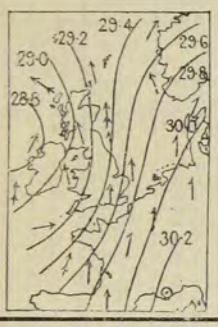
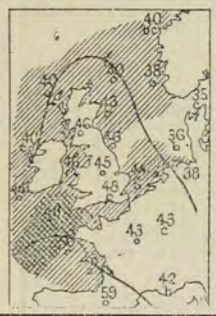
Temperature fallen generally; readings ranging from 45° at Valencia and Scilly to 32° at Nairn.

Wind southerly in W. and N.W. and westerly in E. and S., but south-easterly on eastern shores of North Sea. Strong to a gale in Norway and Denmark and also at Valencia, light or moderate elsewhere. Gales felt at all western and northern stations later.

Sea rough on our N., N.E., and S.W. coasts.

Barometer falling at Valencia and also in Scandinavia and Denmark, rising elsewhere. Depression of previous day passing away to northward of Scotland, but new and deep disturbance appearing in W. later, occasioning a fresh fall generally.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	**Weather** during the 24 hours succeeding the date of the Charts.
		**Saturday, February 10.** *Weather* fair in W., cloudy or overcast elsewhere, with rain in the N. of Scotland and S.E. of England. Rain continuing in S.E. all day and showers falling in many other districts. Lightning seen in N.W. at night. *Temperature* risen several degrees; readings ranging from 49° at Scilly and Prawle Point to 35° at Parsonstown. *Wind* south-easterly in Norway, south-westerly in our Islands and France; strong to a gale in the south-east. *Sea* high at Mullaghmore and Scilly, rough on all coasts. *Barometer* rising at some Irish stations, falling elsewhere. Depression of previous night now lying near the Hebrides, but subsidiary disturbance appearing in S.W. and crossing the S. of England. Rise extending to northern stations later.
		**Sunday, February 11.** *Weather* fair at all but extreme northern stations, where sky overcast. Becoming unsettled in W. later. *Temperature* fallen generally; readings ranging from 45° at Scilly to 34° at Nairn, Donaghadee, and Parsonstown. *Wind* strong south-easterly or southerly on eastern shores of North Sea, but moderate or fresh westerly in our Islands and France. Subsequently backing to S. in W. and increasing. *Sea* rough in the Channel, rather rough in the extreme N. and N.W. *Barometer* falling Scandinavia and Denmark, rising elsewhere. Small depression shown off the Hebrides, but subsidiary disturbance of previous day entirely disappeared, and barometer relatively high over Spain as well as Northern Europe.
		**Monday, February 12.** *Weather* cloudy or overcast generally, with rain in the W. and S. Rain subsequently falling in all districts, and thunder and lightning occurring in S. W. *Temperature* risen generally; readings ranging from 48° at Scilly and in London to 40° in the N. and N.W. *Wind* south-easterly in N., southerly elsewhere; strong to a gale on almost all coasts. Veering to S.W. in S. later and moderating. *Sea* very high at the entrance to the Channel, rough on all our coasts. *Barometer* falling generally. Readings highest Germany and the E. of France, with a deep depression off the W. of Ireland. Further and still deeper disturbance appearing in W. later and travelling northwards.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟫⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	45	33	42·4	36·4	39·4	+0·2	7	1·00	+0·50	*	*
	Stornoway	46	32	43·7	35·6	39·7	+0·5	6	1·20	+0·10	14	23
	Wick	48	29	44·4	35·0	39·7	+0·9	5	0·45	+0·03	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	40	50·7	43·0	46·9	+0·9	7	2·41	+1·60	*	*
	Jersey (Noirmont)	51	39	49·0	41·3	45·2	+2·8	7	1·49	+0·89	22	33

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	46	31	43·6	35·4	39·5	+ 1·0	6	0·23	−0·13	*	*
	Aberdeen	47	31	44·1	35·9	40·0	+ 1·8	6	1·54	+0·96	14	23
	Leith	48	33	46·1	34·9	40·5	+ 1·4	6	0·21	−0·19	*	*
2. ENGLAND, N.E.	Alnwick Castle	46	31	42·7	34·9	38·8	+ 0·2	7	0·97	?	*	*
	Shields	51	32	44·9	34·0	39·5	+ 0·2	6	0·49	+0·09	*	*
	Durham	49	32	43·2	33·2	38·2	− 0·5	7	0·89	+0·47	14	22
	Scarborough ⚓	50	35	44·0	36·9	40·5	+ 1·7	6	1·49	+1·09	*	*
	York	50	33	45·1	36·0	40·6	+ 1·4	7	1·40	+1·00	6	9
	Spurn Head	47	36	43·9	37·9	40·9	+ 1·9	6	1·29	?	*	*
3. ENGLAND, E.	Hillington ⚓	50	34	47·0	36·2	41·6	+ 2·7	5	1·75	+1·32	14	21
	Yarmouth	47	36	44·4	37·3	40·9	+ 0·8	6	1·42	+0·88	*	*
	Geldeston	50	37	46·4	38·3	42·4	+ 2·2	5	1·05	+0·64	14	21
	Cambridge	51	34	47·9	36·1	42·0	+ 2·2	5	1·43	+1·13	16	24
	Rothamsted	51	32	47·0	36·9	42·0	+ 2·7	7	2·28	+1·77	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	51	32	45·1	34·6	39·9	0·0	7	1·49	+1·09	*	*
	Loughborough	50	34	46·9	35·7	41·3	+ 1·9	7	1·89	+1·41	*	*
	Leicester	50	34	46·7	36·8	41·8	+ 2·6	7	1·85	+1·44	19	29
	Birmingham (Oscott)	51	34	46·6	35·6	41·1	+ 2·1	7	1·80	+1·21	*	*
	Cheadle ⚓	48	33	44·8	34·7	39·8	+ 1·1	7	1·25	?	*	*
	Churchstoke ⚓	52	33	47·2	36·0	41·6	+ 1·6	7	2·75	?	20	31
	Hereford ⚓	55	35	49·8	37·1	43·5	+ 3·2	7	1·82	+1·22	*	*
	Cirencester	51	34	47·9	36·7	42·3	+ 2·7	7	2·10	+1·41	16	24
	Oxford	53	37	49·1	38·3	43·7	+ 3·5	7	2·06	+1·61	18	27
5. ENGLAND, S.	London†	55	36	48·9	38·0	43·5	+ 2·8	7	1·91	+1·51	10	15
	Marlborough ⚓	52	33	47·6	37·6	42·6	+ 3·1	7	3·13	+2·51	18	27
	Strathfield Turgiss ⚓	52	32	48·7	37·8	43·3	+ 3·0	7	2·50	+1·97	*	*
	Dover	49	37	46·3	39·7	43·0	+ 1·8	6	1·44	+0·94	*	*
	Hastings (St. Leonard's)	49	39	48·0	40·9	44·5	+ 3·3	7	2·03	+1·54	15	23
	Southampton	55	37	50·5	40·9	45·7	+ 4·8	7	2·51	?	19	29
	Hurst Castle	55	39	51·3	41·3	46·3	+ 4·3	7	2·06	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	46	33	44·1	36·6	40·4	+ 0·7	7	3·86	?	*	*
	Glasgow	46	33	43·9	36·0	40·0	+ 0·8	7	0·42	−0·68	17	27
	Ardrossan	46	33	44·7	36·6	40·7	+ 1·2	6	0·50	−0·39	*	*
	Silloth (Cumberland)	49	31	46·4	35·7	41·1	+ 1·0	7	0·76	+0·05	23	36
	Douglas (Isle of Man)	48	32	45·5	39·7	42·6	+ 1·6	7	1·19	+0·22	25	38
7. ENGLAND, N.W.	Barrow-in-Furness	47	36	45·3	37·9	41·6	+ 0·8	7	1·30	?	*	*
	Stonyhurst	51	33	45·1	35·1	40·1	+ 1·0	7	1·08	+0·16	12	18
	Blackpool ⚓	48	34	46·5	35·8	41·2	0·0	7	0·87	+0·27	22	34
	Manchester	48	33	45·4	36·2	40·8	+ 0·9	7	0·77	+0·20	*	*
	Liverpool Obsy (Bidston)	49	36	46·4	37·4	41·9	+ 0·9	7	0·66	+0·26	*	*
	Llandudno ⚓	50	37	47·8	38·6	43·2	+ 1·1	7	1·33	+0·73	22	34
	Holyhead	50	32	47·6	38·9	43·3	+ 0·4	7	1·34	+0·72	*	*
8. ENGLAND, S.W.	Pembroke	49	38	47·7	41·6	44·7	+ 1·3	7	2·15	+1·35	17	26
	Arlington (N. Devon)	50	33	48·9	36·9	42·9	+ 1·7	7	2·66	?	*	*
	Cullompton ⚓	51	35	?49·3	39·2	?44·3	?+ 2·4	7	2·87	?	19	29
	Falmouth	51	38	50·2	42·3	46·3	+ 2·5	7	3·12	+2·22	15	22
	Plymouth	52	37	51·2	40·0	45·6	+ 2·3	7	2·30	+1·38	9	13
	Prawle Point	52	37	49·3	41·0	45·2	+ 2·2	7	1·45	?	*	*
9. IRELAND, N.	Londonderry	53	33	49·4	36·0	42·7	+ 2·2	7	1·25	+0·49	*	*
	Mullaghmore	50	34	45·1	37·0	41·1	− 0·4	7	2·17	?	*	*
	Markree Castle	47	32	44·9	35·3	40·1	− 0·7	7	0·46	−0·24	17	26
	Brookeborough	47	32	45·3	35·3	40·3	+ 0·5	7	1·36	?	*	*
	Armagh	48	32	45·7	36·4	41·1	+ 0·4	7	1·08	+0·47	26	40
	Donaghadee	47	32	46·1	36·3	41·2	+ 0·2	7	1·81	?	*	*
10. IRELAND, S.	Dublin	49	33	46·8	38·6	42·7	+ 0·9	6	1·57	+1·09	26	40
	Parsonstown	50	32	47·1	35·4	41·3	+ 0·6	5	1·36	+0·81	24	37
	Waterford										*	*
	Roche's Point	52	34	49·1	39·0	44·1	+ 0·1	6	2·19	+1·08	*	*
	Valencia	52	33	49·3	37·4	43·4	− 1·7	7	3·62	+2·42	14	21
	Foynes										*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

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PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, FEBRUARY 19, 1883.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. †Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	54	30	46	36	41	2 above.	5	6	2 more.	14	21
	2. ENGLAND, N.E.	50	31	46	36	41	1 above.	5	4	0 (average).	21	31
	3. ENGLAND, E.	54	29	47	35	41	1 above.	5	6	2 more.	24	34
	4. MID. COUNTIES	53	29	47	35	41	1 above.	5	7	3 more.	26	38
	5. ENGLAND, S.	53	29	48	37	43	1 above.	5	10	5 more.	24	35
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	52	31	46	37	41	1 above.	7	18	3 more.	19	29
	7. ENGLAND, N.W.	54	32	47	37	42	1 above.	5	7	1 more.	21	31
	8. ENGLAND, S.W.	53	29	49	38	43	0 (average).	6	12	4 more.	29	42
	9. IRELAND, N.	53	29	47	34	41	0 (average).	6	18	11 more.	17	25
	10. IRELAND, S.	54	29	49	36	42	1 below.	6	26	19 more.	20	30

General Remarks.

Weather has continued very dull and unsettled over the whole Kingdom, though the rain in nearly all parts of Great Britain has been less heavy than during last week.

Temperature has been slightly below the mean in "Ireland, S." and about equal to it in "England, S.W." and "Ireland, N.", but elsewhere it has remained 1° or 2° above its normal value. The maxima, which were nowhere very high, varied from 50° in "England, N.E." to 54° in "Scotland, E.", "England, E.", and "Ireland, S." The minima, which were registered either on the 16th, 17th, or 19th, varied from 32° in "England, N.W." to 29° in most of the other English districts and in Ireland.

Rainfall has been about equal to the mean in "England, N.E." but more elsewhere, the excess over Ireland being very considerable.

Bright sunshine has been rather more general than during last week, the percentages of possible duration varying from 21 in "Scotland, E." to 38 in the "Midland Counties" and 42 in "England, S.W."

Depressions observed.—During the greater part of this week a series of more or less important depressions again travelled in a northerly or north-north-easterly direction outside our western and north-western coasts, while some small subsidiary disturbances passed over England. In France and Scandinavia the barometer was high, so that winds from between S. and W. prevailed in our Islands. In force the wind was generally moderate or fresh, but at times—notably on the 14th and 17th—increased to a gale on many parts of our coasts. At the close of the period an area of high pressure had formed off our S.W. coasts and the advancing depressions were merely affecting our extreme N.W. and N. coasts.

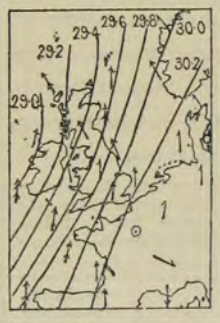
It 5755a. 470.—2/83. Wt. 233. E. & S.

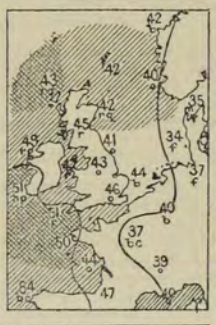
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending February 19, 1883.

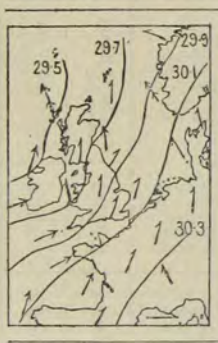
Synoptic Weather Charts.—8 a.m.

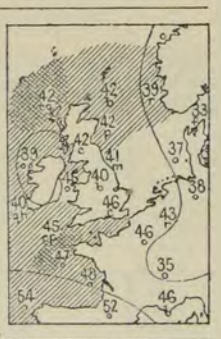
BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Tuesday, February 13.

Weather cloudy and showery in the extreme W. and S.W., with sleet or hail in the W. of Ireland; fair in other districts. Showers falling generally later.

Temperature fallen several degrees: readings ranging from 45° at Hurst Castle and Dover to 34° at Parsonstown.

Wind south-easterly in Norway, southerly or south-westerly elsewhere; strong in N. and N.W., moderate or fresh in S. Subsequently increasing to gale in N. Scotland.

Sea rough in W. and N.

Barometer rising generally—rapidly in N.W. Pressure highest northern Europe, but relatively high S. of France, with lowest readings off our N.W. coasts. Fresh fall taking place at Valencia later.

Wednesday, February 14.

Weather fine in the S.E., cloudy or overcast elsewhere, with rain in many places. Rain subsequently extending to S.E., but some improvement taking place in W. and N.

Temperature risen generally; readings ranging from 51° at Valencia and Scilly to 41° at Shields. Maxima high in most places.

Wind generally southerly; strong to a gale on all our coasts. Veering to S.W. at the English and Irish stations later.

Sea very high at Valencia and Roche's Point, high or rough on all but our S.E. coasts.

Barometer falling at all but the Continental stations, and new depression lying off our western coasts. Disturbance subsequently passing northwards, and barometer rising in W.

Thursday, February 15.

Weather fair in the E. and S., cloudy and showery elsewhere, with hail and sleet at some western stations. Showers falling generally later, with thunder and lightning at Holyhead and in London.

Temperature falling except in France: readings ranging from 48° at Prawle Point and Hurst Castle to 38° at Roche's Point.

Wind south-easterly on eastern shores of North Sea, southerly or south-westerly elsewhere; strong to a gale in Hebrides, but moderate or fresh in force on our other coasts. Subsequently veering to the westward and falling light.

Sea rough in the N. and W., moderate in the S.E.

Barometer rising generally. Areas of high pressure over Scandinavia and the S. of France, with low pressure off our N.W. coasts. Rise continuing all day.

Friday, February 16.

Weather dull and rainy on the eastern shores of the North Sea, and also at Stornoway and Valencia, but fine and bright elsewhere. Cloud and rain again setting in on our W. coasts later.

Temperature fallen generally; readings ranging from 48° at Valencia to 32° at Loughborough.

Wind light and variable in France, and light westerly or north-westerly on our E. and S. coasts, but strong from the southward on our extreme W. and N.W. coasts. Gales experienced in extreme W. and N.W. later.

Sea rough off the W. coasts of Ireland and Scotland, and also in the Bay of Biscay.

Barometer rising generally, and now highest over the Bay of Biscay and W. of France. Brisk fall taking place in W. later, and fresh disturbances appearing off the W. of Ireland.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, February 17.

Weather dull and rainy in the W. and N.W., fair in all other districts. Cloud and rain extending to all but south-eastern stations later.

Temperature rising slightly in our Islands, falling elsewhere; readings ranging from 50° at Scilly to 34° at Cambridge.

Wind southerly; strong to a gale at many western and northern stations, moderate in the S.E. Veering to W. in Ireland later, and gale subsiding.

Sea very high at Stornoway, rough in the W. and extreme N.

Barometer rising on eastern shores of North Sea, falling elsewhere. Readings again highest over Sweden, with large area of low pressure lying off our N.W. coasts. Low pressure subsequently moving eastwards, and barometer rising in W.

Sunday, February 18.

Weather fair at many western and southern stations, cloudy or overcast elsewhere, with rain in the S.E. of England. Fine weather becoming more general during latter part of day.

Temperature fallen most places; readings ranging from 43° at Hurst Castle to 34° at Stornoway and Parsonstown.

Wind strong south-easterly on eastern shores of North Sea, and moderate southerly on our own E. coasts, but light from W. in the W. and S. Subsequently veering to N.W. in all parts of our Islands.

Sea rough at some western and northern stations.

Barometer falling on all but our W. coasts, and two or three shallow depressions passing across the country in an easterly direction. Rise of barometer extending eastwards later.

Monday, February 19.

Weather fair generally, but rather cloudy. Rain falling in extreme W. and N.W. later.

Temperature fallen a little; readings ranging from 44° at Scilly to 32° at Nairn and 31° at Parsonstown.

Wind light generally; south-westerly in Scotland, north-westerly or northerly in England, variable in Ireland and France. Subsequently increasing to strong wind from S. in N. and N.W.

Sea rough off the N. of Scotland, moderate or slight elsewhere.

Barometer falling slightly on eastern shores of North Sea, rising over our Islands and France. Pressure still highest over Sweden, but second area of relatively high readings forming off our S.W. coasts. Depression skirting the N.W. of Scotland later, occasioning brisk fall of barometer.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇉ = a heavy gale; ⇒ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	46	36	44·3	38·0	41·2	+2·0	5	1·45	+0·85	*	*
	Stornoway	49	31	45·6	35·4	40·5	+1·0	7	1·45	+0·37	16	25
	Wick	46	28	44·3	35·9	40·1	+1·2	4	0·43	+0·03	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	40	50·6	41·7	46·2	+0·2	7	1·51	+0·81	*	*
	Jersey (Noirmont)	52	39	48·4	41·7	45·1	+2·5	5	0·77	+0·23	37	52

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	53	30	45·7	35·3	40·5	+ 1·5	4	0·27	−0·06	*	*
	Aberdeen	46	32	44·3	35·7	40·0	+ 1·4	6	1·45	+0·91	14	21
	Leith	54	32	47·9	36·1	42·0	+ 2·4	4	0·13	−0·25	*	*
2. ENGLAND, N.E.	Alnwick Castle	47	31	44·0	34·6	39·3	+ 0·2	6	0·44	?	*	*
	Shields	49	35	46·6	36·4	41·5	+ 1·8	5	0·10	−0·30	*	*
	Durham	47	31	45·3	34·0	39·7	+ 0·5	5	0·12	−0·34	22	33
	Scarborough ℳ	49	35	45·2	37·3	41·3	+ 2·1	6	0·52	+0·12	*	*
	York	50	34	47·4	35·3	41·4	+ 1·7	5	0·63	+0·22	20	29
	Spurn Head	48	36	45·1	37·7	41·4	+ 1·9	5	0·45	?	*	*
3. ENGLAND, E.	Hillington ℳ	54	31	46·4	34·5	40·5	+ 0·9	4	0·45	+0·03	24	35
	Yarmouth	49	34	44·7	37·7	41·2	+ 0·5	4	0·58	+0·06	*	*
	Geldeston	51	32	46·7	36·7	41·7	+ 0·9	5	0·69	+0·29	26	38
	Cambridge	54	30	47·7	34·3	41·0	+ 0·4	4	0·70	+0·37	21	30
	Rothamsted	52	29	46·9	33·8	40·4	+ 0·4	7	0·76	+0·28	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	52	32	?47·6	35·4	?41·5	+ 1·1	5	0·37	−0·01	*	*
	Loughborough	50	32	47·6	35·6	41·6	+ 1·5	4	0·68	+0·26	*	*
	Leicester	51	32	47·2	35·8	41·5	+ 1·6	6	0·76	+0·34	21	31
	Birmingham (Oscott)	49	31	46·8	34·9	40·9	+ 1·1	4	0·37	+0·02	*	*
	Cheadle ℳ	48	31	45·6	33·8	39·7	+ 0·3	5	0·26	?	*	*
	Churchstoke ℳ	52	32	47·5	33·8	40·7	+ 0·1	6	1·30	?	24	35
	Hereford ℳ	53	32	48·7	35·5	42·1	+ 1·1	6	0·65	+0·11	*	*
	Cirencester	50	29	47·3	34·9	41·1	+ 1·0	6	1·01	+0·41	35	51
	Oxford	51	35	48·1	37·7	42·9	+ 2·2	5	0·95	+0·53	25	36
5. ENGLAND, S.	London†	53	32	48·4	37·1	42·8	+ 1·5	5	0·76	+0·36	15	22
	Marlborough ℳ	50	31	47·7	35·6	41·7	+ 1·6	6	1·20	+0·63	30	43
	Strathfield Turgiss ℳ	53	29	48·8	33·8	41·3	+ 0·3	5	1·00	+0·54	*	*
	Dover	50	34	45·4	38·6	42·0	+ 0·2	4	0·98	+0·56	*	*
	Hastings (St. Leonard's)	49	33	47·2	38·7	43·0	+ 1·3	5	0·72	+0·32	26	38
	Southampton	53	33	50·1	37·8	44·0	+ 2·6	6	1·09	?	26	38
	Hurst Castle	50	33	48·7	39·9	44·3	+ 1·8	5	0·87	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	51	33	45·9	35·8	40·9	+ 1·1	7	5·28	?	*	*
	Glasgow	50	33	45·3	35·8	40·6	+ 1·1	6	0·71	+0·21	15	22
	Ardrossan	48	32	45·4	36·9	41·2	+ 1·5	7	1·44	+0·64	*	*
	Silloth (Cumberland)	52	31	46·9	35·6	41·3	+ 0·7	7	0·57	−0·07	20	30
	Douglas (Isle of Man)	49	35	46·7	38·7	42·7	+ 1·4	6	1·15	+0·26	23	34
7. ENGLAND, N.W.	Barrow-in-Furness	49	33	46·7	37·1	41·9	+ 0·7	6	0·81	?	*	*
	Stonyhurst	50	33	45·7	35·6	40·7	+ 1·0	5	0·64	−0·25	20	29
	Blackpool ℳ	51	34	48·9	36·1	42·5	+ 0·9	5	0·58	+0·03	22	32
	Manchester	50	32	46·5	35·4	41·0	+ 0·6	5	0·31	−0·24	*	*
	Liverpool Obsy (Bidston)	52	37	47·1	38·1	42·6	+ 1·1	5	0·37	−0·09	*	*
	Llandudno ℳ	54	35	48·8	38·8	43·8	+ 1·4	6	0·95	+0·37	21	31
	Holyhead	50	39	47·4	39·9	43·7	+ 0·7	6	1·35	+0·79	*	*
8. ENGLAND, S.W.	Pembroke	50	37	47·4	41·3	44·4	+ 0·6	7	1·37	+0·66	29	42
	Arlington (N. Devon)	51	31	47·7	35·1	41·4	− 0·2	6	1·35	?	*	*
	Cullompton ℳ	50	29	49·1	35·4	42·3	0·0	6	1·46	?	28	41
	Falmouth	53	36	48·6	41·1	44·9	+ 0·8	7	1·72	+0·87	30	43
	Plymouth	52	33	49·5	37·6	43·6	− 0·1	6	1·11	+0·26	28	40
	Prawle Point	50	33	49·4	37·9	43·7	+ 0·4	5	0·38	?	*	*
9. IRELAND, N.	Londonderry	53	31	48·5	33·6	41·1	+ 0·5	6	1·70	+1·00	*	*
	Mullaghmore	52	32	48·6	35·3	42·0	+ 0·7	7	1·37	?	*	*
	Markree Castle	50	30	45·4	32·7	39·1	− 1·4	6	0·38	−0·32	13	19
	Brookeborough	51	29	45·8	33·1	39·5	− 0·4	5	3·03	?	*	*
	Armagh	51	29	46·0	34·5	40·3	− 0·8	6	2·15	+1·55	21	31
	Donaghadee	51	31	47·0	34·3	40·7	− 0·6	7	2·05	?	*	*
10. IRELAND, S.	Dublin	54	29	47·0	35·8	41·4	− 0·9	5	0·99	+0·59	25	37
	Parsonstown	53	30	48·0	32·9	40·5	− 0·5	6	1·56	+1·06	20	29
	Roche's Point	51	32	49·6	37·4	43·5	− 0·8	7	3·99	+3·00	*	*
	Valencia	54	33	50·4	37·0	43·7	− 1·7	7	3·79	+2·73	16	23
	Foynes										*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Note.—The reports from Waterford have now ceased.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 8.] WEEK ENDING MONDAY, FEBRUARY 26, 1883. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

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Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861–80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	59	32	51	38	45	5 above.	3	2	2 less.	41	59
	2. ENGLAND, N.E.	57	27	51	39	45	5 above.	1	less than ½	4 less.	32	45
	3. ENGLAND, E.	57	29	51	36	44	3 above.	2	less than ½	4 less.	27	38
	4. MID. COUNTIES	59	30	52	38	45	5 above.	1	less than ½	4 less.	23	33
	5. ENGLAND, S.	55	31	50	37	44	2 above.	2	1	3 less.	19	26
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	52	33	48	41	45	4 above.	3	5	5 less.	15	21
	7. ENGLAND, N.W.	56	33	49	41	45	3 above.	2	1	5 less.	20	8
	8. ENGLAND, S.W.	55	28	49	40	44	1 above.	3	2	6 less.	13	18
	9. IRELAND, N.	59	31	51	42	46	5 above.	3	2	5 less.	14	20
	10. IRELAND, S.	58	30	52	41	46	3 above.	3	1	7 less.	18	24

General Remarks.

Weather has been much finer than of late, very little rain having fallen in any part of our Islands. A brilliant display of aurora was observed at many of our northern and north-western stations on the night of the 24th.

Temperature has been above the mean in all districts, the excess ranging from 2° in "England, S." to 5° in "Scotland, E.", "England, N.E.", the "Midland Counties", and "Ireland, N." The maxima, which were registered on the 21st in Scotland and on the 25th at most of the more southern stations, were high; over central England, in "Scotland, E.", and "Ireland, N.", the thermometer rose to 59°, in "Ireland, S." to 58°, and elsewhere to between 55° and 57°. The minima were generally recorded either on the 20th or 26th, and varied from 27° in "England, N.E." to 33° in "Scotland, W." and "England, N.W."

Rainfall has been considerably less than the mean in all districts.

Bright sunshine has been decidedly more prevalent than during last week in most of the "Wheat-producing Districts", but rather less so in the "Grazing Districts" and "England, S." The percentages of possible duration ranged from 59 in the E. of Scotland, to 18 in the S.W. of England.

Depressions observed.—Barometric pressure over our Islands has been much more uniform and steady than for several weeks past. At the commencement of the period a large area of high pressure was established over France, and as the week advanced the system gradually increased in intensity and extended northwards until it covered almost the whole of our Islands. The winds over the United Kingdom, which were at first westerly, subsequently became variable in direction, and, except in the extreme N., very light in force. To the northward of Scotland and over Scandinavia some deep and extensive depressions travelled from the westward, causing severe gales from between S.W. and W.

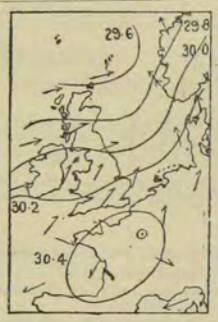
R 5897. 100 & 470.—3/83. Wt. 233. E. & S.

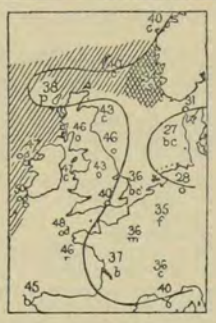
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending February 26, 1883.

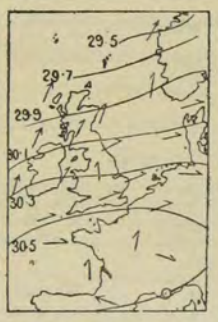
Synoptic Weather Charts.—8 a.m.

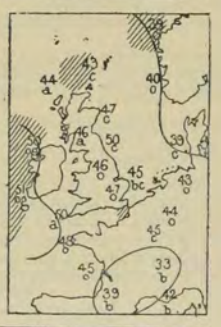
BAROMETER AND WIND.

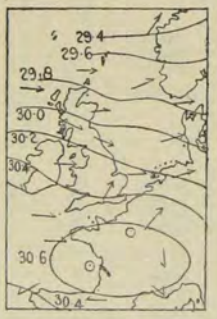
CLOUD, RAIN, SEA, AND TEMPERATURE.

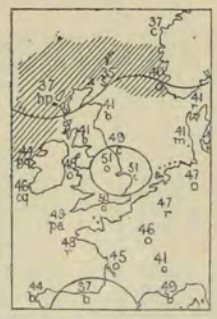


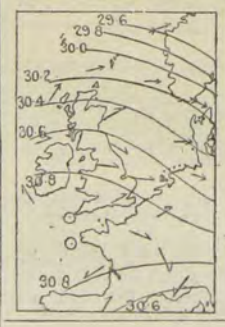












Weather during the 24 hours succeeding the date of the Charts.

Tuesday, February 20.

Weather fine in France and Sweden, cloudy or overcast elsewhere, with rain at Parsonstown and on the S. coast of England. Rain ceasing in S. later.

Temperature risen over our Islands; readings ranging from 50° at Valencia to 36° at Yarmouth. Maxima rather high generally.

Wind variable in France and south-easterly in Norway and Denmark, but south-westerly elsewhere. Moderate or fresh in force in all districts.

Sea rough in the extreme N. and W.; moderate or slight elsewhere.

Barometer rising over France and our southern districts, falling in the N. Anticyclone lying over France, and large depression to the northward of Scotland. Latter subsequently moving away, and barometer rising in all parts of our Islands.

Wednesday, February 21.

Weather cloudy or overcast generally, with fog or mist in many places, and rain at Ardrossan and Roche's Point. Rain subsequently falling at many western and northern stations, but weather improving in S.E.

Temperature risen generally; readings ranging from 51° at Leith and Valencia to 43° in the Shetlands. Maxima as high as 59° at Aberdeen and 57° at Leith.

Wind generally moderate or fresh from S.W. and W.

Sea rough off the W. of Ireland and also at Sumburgh Head, slight or smooth elsewhere.

Barometer rising at all but the Swedish stations. Anticyclone still lying over France, and depression noticed in extreme N. on previous day now off the N.W. of Norway. Little change later.

Thursday, February 22.

Weather fair in some parts of Ireland and Scotland, cloudy or overcast elsewhere, with rain in several places. Marked improvement taking place later.

Temperature fallen N. and W., risen in S.; readings ranging from 51° at Loughborough, Cambridge, and Yarmouth to 35° at Sumburgh Head. Maxima considerably lower than on previous day.

Wind variable in France, generally westerly elsewhere; strong in force at some western and northern stations. Fresh gale in N. of Scotland later.

Sea rough in the extreme N. and N.W.

Barometer falling to the eastward of our Islands, rising in the W. and S. Distribution of pressure very similar to that of previous day, but slight local depressions shown in various parts of our area. Barometer rising generally later.

Friday, February 23.

Weather fair at the majority of stations, but showery in the Hebrides. Cloudy weather and slight rain reported from extreme W. and N. in evening.

Temperature risen in Scotland, fallen several degrees over England and Ireland; readings ranging from 45° at Ardrossan and Holyhead to 36° in London.

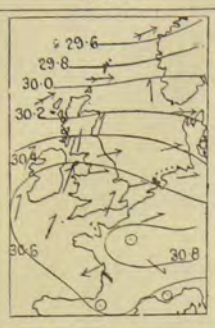
Wind easterly in the W. of France, generally westerly elsewhere; light or moderate in force at all but the Scandinavian stations. Subsequently increasing to gale in the N. of Scotland.

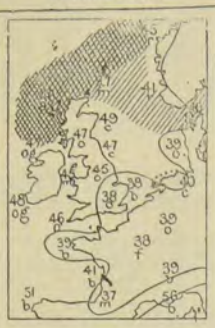
Sea rough on our extreme N. and N.W. coasts.

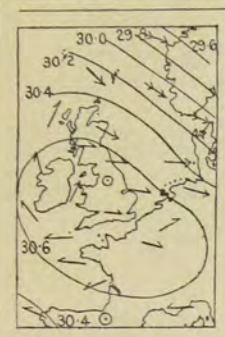
Barometer rising generally, and anticyclone extending from France over our southern districts. Large depression passing across the N. of Scandinavia. Barometer falling slightly at all but southern stations later, and subsidiary disturbance appearing off the Hebrides.

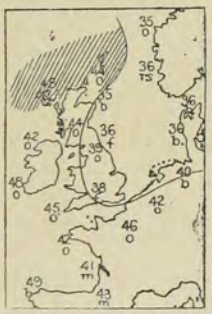
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Saturday, February 24.

Weather fine in France and the S.E. of England, cloudy elsewhere, with rain at Roche's Point and also in the W. of Norway. Sky clearing in Scotland later.

Temperature fallen in France, risen slightly elsewhere; readings ranging from 49° at Wick and Aberdeen to 36° at Dover. Maxima again high for time of year.

Wind easterly in the W. of France, westerly or south-westerly elsewhere; strong to a gale in Norway and the N. of Scotland.

Sea high off the W. and N.W. of Scotland.

Barometer falling slightly excepting in Scandinavia. Anticyclone now over central and eastern France, and large depression again advancing towards the W. of Norway. Rise taking place in N. later.

Sunday, February 25.

Weather dull and misty on our western and southern coasts, fine elsewhere. Little change later.

Temperature fallen at the majority of stations; readings ranging from 47° in the S. of Ireland to 40° at Leith.

Wind easterly in France, light and variable at our southern stations, westerly elsewhere; strong to a gale in Scandinavia.

Sea very high off the coast of Norway, rough at Sumburgh Head.

Barometer falling quickly in Sweden, and slightly in France, but rising over the greater part of our Islands. Deep depression passing across the N. of Scandinavia, and anticyclone lying over our southern coasts. Former subsequently moving away eastwards and later extending northwards.

Monday, February 26.

Weather fine in the E. of Scotland and on the eastern shores of the North Sea, cloudy or overcast elsewhere, with fog at many southern stations.

Temperature fallen generally; readings ranging from 48° at Valencia to 35° at Aberdeen and 34° at Parsonstown.

Wind easterly in the W. of France, southerly or south-westerly on our own western and northern coasts, and north-westerly on the eastern shores of the North Sea. Light or moderate in force generally.

Sea rough off the Shetlands and Hebrides, moderate or smooth elsewhere.

Barometer rising quickly in Scandinavia and Denmark, but falling over our Islands and France. Anticyclone still lying over our southern districts and the N. of France, and new depression appearing off the W. of Norway in evening.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇉ = a heavy gale; ⇒ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	47	34	44·9	36·7	40·8	+1·6	7	0·85	+0·30	*	*
	Stornoway	49	34	46·4	37·7	42·1	+2·4	6	1·16	+0·14	16	23
	Wick	50	34	48·4	36·9	42·7	+3·7	4	0·35	−0·05	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	41	50·4	43·4	46·9	+0·7	2	0·13	−0·49	*	*
	Jersey (Noirmont)	51	39	46·9	40·7	43·8	+0·9	3	0·07	−0·49	27	37

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	53	32	48·3	38·3	43·3	+ 4·0	4	0·47	+0·17	*	*
	Aberdeen	59	33	53·0	37·4	45·2	+ 6·6	2	0·10	−0·41	41	59
	Leith	55	34	50·1	39·6	44·9	+ 4·8	3	0·08	−0·24	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	32	48·1	39·6	43·9	+ 4·6	0	—	?	*	*
	Shields	56	33	51·3	39·6	45·5	+ 5·6	0	—	−0·40	*	*
	Durham	54	27	52·5	36·8	44·7	+ 5·3	1	0·01	−0·45	36	51
	Scarborough	55	37	50·8	39·9	45·4	+ 5·9	1	0·02	−0·38	*	*
	York	57	34	52·6	39·1	45·9	+ 5·9	1	0·01	−0·42	28	39
	Spurn Head	64	38	49·4	40·6	45·0	+ 5·2	0	—	?	*	*
3. ENGLAND, E.	Hillington	56	29	52·0	35·4	43·7	+ 3·9	1	0·04	−0·36	31	44
	Yarmouth	53	32	49·6	35·6	42·6	+ 1·8	2	0·02	−0·48	*	*
	Geldeston	56	31	52·1	35·8	44·0	+ 3·1	1	0·01	−0·40	28	39
	Cambridge	57	33	51·7	36·9	44·3	+ 3·5	2	0·04	−0·32	22	31
	Rothamsted	54	33	50·2	36·5	43·4	+ 3·4	3	0·06	−0·38	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	58	34	53·0	40·3	46·7	+ 6·1	0	—	−0·36	*	*
	Loughborough	58	36	52·4	39·9	46·2	+ 5·8	0	—	−0·40	*	*
	Leicester	57	35	51·3	38·2	44·8	+ 4·6	1	0·01	−0·39	17	24
	Birmingham (Oscott)										*	*
	Cheadle	56	33	50·5	37·5	44·0	+ 4·4	0	—	?	*	*
	Churchstoke	55	31	51·9	37·1	44·5	+ 3·8	2	0·07	?	26	37
	Hereford	59	31	54·4	38·1	46·3	+ 5·0	0	—	−0·49	*	*
	Cirencester	53	30	50·4	36·0	43·2	+ 2·6	1	0·01	−0·54	28	39
	Oxford	55	35	51·3	38·7	45·0	+ 3·9	0	—	−0·40	22	31
5. ENGLAND, S.	London†	55	33	51·4	37·7	44·6	+ 2·8	1	0·05	−0·32	11	15
	Marlborough	52	32	50·2	36·1	43·2	+ 2·6	1	0·02	−0·49	23	32
	Strathfield Turgiss	54	32	51·7	37·4	44·6	+ 3·1	0	—	−0·40	*	*
	Dover	51	33	48·7	37·6	43·2	+ 1·1	2	0·15	−0·29	*	*
	Hastings (St. Leonard's)	50	35	47·8	38·6	43·2	+ 1·2	3	0·14	−0·26	15	21
	Southampton	55	31	50·5	36·5	43·5	+ 1·4	1	0·01	?	13	18
	Hurst Castle	51	33	48·0	38·3	43·2	+ 0·3	2	0·06	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	52	38	48·9	42·1	45·5	+ 5·5	6	1·57	?	*	*
	Glasgow	50	39	47·9	41·0	44·5	+ 4·7	5	0·63	−0·22	13	19
	Ardrossan	52	33	48·0	40·3	44·2	+ 4·2	2	0·34	−0·37	*	*
	Silloth (Cumberland)	49	34	47·5	40·8	44·2	+ 3·2	2	0·03	−0·55	15	21
	Douglas (Isle of Man)	51	40	48·8	42·7	45·8	+ 4·2	1	0·02	−0·78	17	24
7. ENGLAND, N.W.	Barrow-in-Furness	53	36	48·1	41·7	44·9	+ 3·3	1	0·03	?	*	*
	Stonyhurst	52	36	48·5	39·7	44·1	+ 4·0	3	0·07	−0·79	19	27
	Blackpool	50	35	47·1	41·3	44·2	+ 2·3	2	0·18	−0·34	13	18
	Manchester	55	33	49·4	38·3	43·9	+ 3·2	2	0·09	−0·43	*	*
	Liverpool Obsy (Bidston)	56	39	49·4	42·6	46·0	+ 4·3	1	0·05	−0·28	*	*
	Llandudno	55	37	50·5	42·4	46·5	+ 3·9	1	0·06	−0·46	28	40
	Holyhead	51	40	48·3	42·7	45·5	+ 2·3	1	0·04	−0·48	*	*
8. ENGLAND, S.W.	Pembroke	52	39	47·4	43·0	45·2	+ 1·1	3	0·05	−0·65	12	17
	Arlington (N. Devon)	51	30	48·6	38·0	43·3	+ 1·5	5	0·61	?	*	*
	Cullompton	55	28	51·0	37·8	44·4	+ 1·9	2	0·02	?	14	19
	Falmouth	53	39	49·0	41·7	45·4	+ 1·1	1	0·04	−0·77	15	21
	Plymouth	54	32	49·5	38·4	44·0	0·0	3	0·04	−0·73	11	15
	Prawle Point	50	35	47·1	39·4	43·3	− 0·2	2	0·11	?	*	*
9. IRELAND, N.	Londonderry	59	39	54·7	42·3	48·5	+ 7·6	5	0·37	−0·28	*	*
	Mullaghmore	52	34	49·3	41·1	45·2	+ 3·5	4	0·23	?	*	*
	Markree Castle	53	38	51·2	42·4	46·8	+ 5·8	1	0·05	−0·65	13	18
	Brookeborough	52	39	49·5	41·9	45·7	+ 5·6	1	0·11	?	*	*
	Armagh	53	39	49·2	42·7	46·0	+ 4·6	3	0·08	−0·47	15	21
	Donaghadee	55	31	49·9	39·9	44·9	+ 3·0	1	0·03	?	*	*
10. IRELAND, S.	Dublin	58	36	52·0	42·6	47·3	+ 4·8	1	0·02	−0·47	23	32
	Parsonstown	55	30	51·0	38·7	44·9	+ 3·4	2	0·03	−0·46	16	22
	Roche's Point	54	33	52·1	40·0	46·1	+ 1·8	4	0·07	−0·83	*	*
	Valencia	54	37	51·6	42·3	47·0	+ 1·6	4	0·18	−0·83	14	19
	Foynes										*	*

Stations marked ⁂ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Note.—The reports from Waterford have now ceased.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 9.] WEEK ENDING MONDAY, MARCH 5, 1883. [*Price 2d.*
[*Annual subscription, post paid.* 12*s.* 6*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	57	29	51	36	43	4 above.	2	2	2 less.	30	41
	2. ENGLAND, N.E.	58	29	51	36	43	3 above.	3	2	2 less.	34	44
	3. ENGLAND, E.	55	27	49	35	42	1 above.	3	3	1 less.	30	40
	4. MID. COUNTIES	58	27	51	36	43	3 above.	2	1	3 less.	34	45
	5. ENGLAND, S.	56	26	50	36	43	1 above.	2	1	3 less.	34	45
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	56	28	49	38	44	3 above.	2	1	6 less.	26	35
	7. ENGLAND, N.W.	56	29	50	38	44	2 above.	2	1	4 less.	42	56
	8. ENGLAND, S.W.	58	30	51	40	45	2 above.	1	less than ½	7 less.	36	47
	9. IRELAND, N.	58	27	51	38	45	3 above.	2	1	5 less.	18	24
	10. IRELAND, S.	59	29	52	42	47	3 above.	2	less than ½	7 less.	27	35

General Remarks.

Weather during this period has been dry, with very little cloud. At many stations, however, some wet fog or mist has prevailed.

Temperature has again been above the mean in all districts, the excess varying from 1° in "England, E." and "England, S.", to 4° in "Scotland, E." The thermometer was generally highest either on the 1st or 5th, when it rose to 59° in "Ireland, S.", to 58° in "Ireland, N.", and over north-eastern, central, and south-western England, and to between 55° and 57° elsewhere. The minima, which were registered towards the end of the period, ranged from 26° in "England, S." to 30° in "England, S.W."

Rainfall has been less than the mean in all districts.

Bright sunshine shows a considerable increase in nearly all parts of the Kingdom, the percentages of possible duration varying from 56 in "England, N.W." to 24 in "Ireland, N."

Depressions observed.—During the whole of this week pressure has been very high and steady in our Islands and the N. of France, while over Scandinavia some large depressions have appeared from the westward or north-westward. Owing to this distribution of pressure the winds have been light from the westward at all our more northern stations, and generally easterly or north-easterly in the S. In Norway and Sweden northerly to westerly winds have prevailed, and at times risen to a strong gale.

R 6634. 100 & 470.—3/83. Wt. 213. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending March 5, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, February 27.

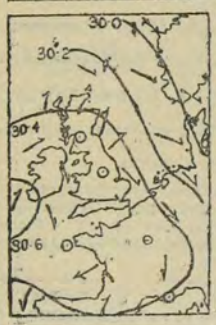
Weather cloudy or overcast at almost all stations, with snow in the N. of Scandinavia and rain at Nairn. Slight rain falling generally during latter part of day.

Temperature fallen in France, risen elsewhere; readings ranging from 49° at Valencia to 39° at Yarmouth.

Wind westerly excepting in France, where north-easterly or easterly. Strong to a gale at Bodö and Christiansund, but light or moderate in our Islands. Veering to N.W. in Scotland and on the eastern shores of the North Sea in evening.

Sea high off the W. of Norway, and rather rough at Sumburgh Head; moderate or slight elsewhere.

Barometer falling everywhere — quickly in Norway and Sweden. Large anticyclone covering France and our southern coasts, with deep depression in the far N. Disturbance moving eastwards later, and barometer rising in N.



Wednesday, February 28.

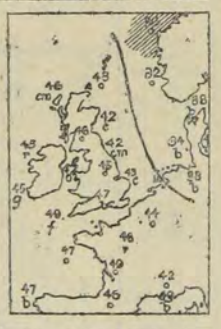
Weather fair in Scotland and on the eastern shores of the North Sea, cloudy or overcast elsewhere, with fog or mist in many places. Rain falling in northern districts later.

Temperature fallen in the N. and N.E., risen elsewhere; readings ranging from 50° at Scilly to 37° at Leith and Donaghadee.

Wind westerly or north-westerly at all but the French stations; light in our Islands, but strong to a gale in Scandinavia.

Sea slight or smooth on all our coasts.

Barometer rising generally, and highest pressures lying off the S.W. of Ireland. Slight fall taking place in N. and E. later, owing to passage of subsidiary disturbance down the North Sea.



Thursday, March 1.

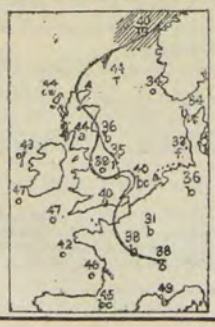
Weather fine and bright in Sweden and Denmark, cloudy elsewhere, with showers in the S.E. Sky clearing in E. later.

Temperature changed irregularly; readings ranging from 49° at Scilly to 42° at Aberdeen and Shields. Maxima high in S.W.

Wind light westerly in N. and N.W., moderate northerly or north-easterly elsewhere. Veering to E. in S. later.

Sea moderate or smooth on all our coasts.

Barometer falling at the southern and French stations, but rising in the N. Highest pressure still over the S. of Ireland, and lowest to the eastward of Sweden. Anticyclone forming over England later.



Friday, March 2.

Weather fine in the E. of Scotland and extreme S.E. of England; still cloudy or overcast elsewhere, with mist or fog in the W. Thick fog subsequently setting in at the Scotch stations.

Temperature fallen generally; readings ranging from 47° at Valencia and Scilly to 35° at Shields.

Wind westerly or south-westerly in N., but easterly or north-easterly in S.; light or moderate in force generally.

Sea moderate or smooth on all our coasts.

Barometer rising at all but the southern French stations, and large anticyclone lying over England and the southern portion of the North Sea. Slight fall taking place in W. and S. later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, March 3.

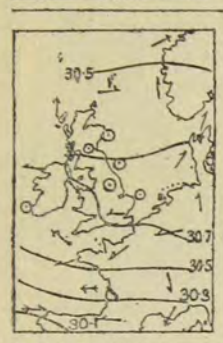
Weather dull and misty in Ireland, and foggy in Scotland, but generally fine elsewhere. Weather clearing in Ireland later.

Temperature fallen at most stations; readings ranging from 46° at Valencia and Scilly to 33° at Cambridge.

Wind moderate generally; easterly in S., south-easterly in W., and southerly in N. Increasing to moderate gale at Mullaghmore, Valencia, and Scilly in afternoon.

Sea rather rough at the mouth of the Channel, slight or smooth elsewhere.

Barometer falling in extreme N. and W., rising elsewhere. Anticyclone still lying over England and the southern portion of the North Sea. Slight rise taking place in W. and N. later.



Sunday, March 4.

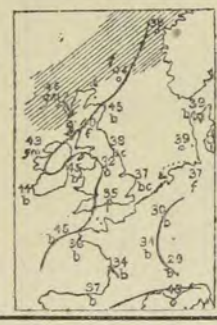
Weather fair generally, but with mist or fog in many parts of our Islands.

Temperature risen in Scandinavia, fallen elsewhere; readings ranging from 46° at Scilly to 29° at Loughborough and Cambridge. Subsequently reaching 57° at York and 56° at Loughborough.

Wind easterly in S., south-easterly in W., and southerly or westerly in N., with calms at the intermediate stations. Westerly wind rising to gale in Scandinavia later.

Sea rather rough at Stornoway and off the W. of Norway.

Barometer falling briskly in Norway and Sweden, rising elsewhere. Position of anticyclone unchanged, but large depression appearing over N. of Scandinavia. Barometer falling in E. later.



Monday, March 5.

Weather cloudy in extreme N. and N.W., fine elsewhere, but foggy in some places. Snow and hail falling in N. of Scotland later.

Temperature risen N., fallen S. and W.; readings ranging from 45° at Stornoway, Aberdeen, Holyhead, and Scilly to 28° at Loughborough.

Wind strong westerly the N. of Scotland, moderate northerly or north-easterly elsewhere. Subsequently veering to N.W. in extreme N., and increasing to gale.

Sea rough on the N. coast of Scotland.

Barometer falling N. and E., rising W. and extreme S. Highest pressure now over Ireland, and large depression of previous day passing away in an easterly direction. Subsidiary disturbance appearing off N. of Scotland later, occasioning general fall of barometer.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	47	38	45·6	39·8	42·5	+2·8	5	0·15	−0·33	*	*
	Stornoway	52	33	48·1	40·0	44·1	+4·2	1	0·12	−0·88	23	32
	Wick	57	32	50·0	36·9	43·5	+4·4	3	0·15	−0·23	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	51	42	49·9	44·3	47·1	+0·8	1	0·01	−0·54	*	*
	Jersey (Noirmont)	60	34	47·4	38·4	42·9	−0·3	2	0·04	−0·55	39	51

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	57	35	50·9	37·7	44·3	+ 4·8	3	0·23	−0·05	*	*
	Aberdeen	55	30	50·4	34·1	42·3	+ 3·4	3	0·18	−0·32	30	41
	Leith	54	29	50·9	36·0	43·5	+ 3·0	1	0·11	−0·19	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	30	49·3	34·4	41·9	+ 2·3	4	0·18	?	*	*
	Shields	55	31	51·1	35·0	43·1	+ 3·0	2	0·23	−0·13	*	*
	Durham	57	29	52·8	34·0	43·4	+ 3·9	4	0·19	−0·36	35	44
	Scarborough ℳ	55	36	50·5	38·5	44·5	+ 4·8	3	0·24	−0·15	*	*
	York	58	30	53·0	35·4	44·2	+ 3·9	2	0·17	−0·25	33	44
	Spurn Head	49	34	46·3	38·1	42·2	+ 2·2	2	0·22	?	*	*
3. ENGLAND, E.	Hillington ℳ	52	28	50·2	34·3	42·3	+ 2·2	4	0·35	−0·05	29	39
	Yarmouth	48	34	45·7	37·0	41·4	+ 0·4	4	0·35	−0·13	*	*
	Geldeston	55	27	48·8	34·8	41·8	+ 0·7	3	0·27	−0·13	32	42
	Cambridge	54	27	50·7	33·7	42·2	+ 1·0	1	0·16	−0·19	30	39
	Rothamsted	55	28	49·5	35·3	42·4	+ 1·7	3	0·20	−0·20	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	58	27	51·6	35·3	43·5	+ 2·6	2	0·15	−0·20	*	*
	Loughborough	56	27	51·3	37·0	44·2	+ 3·6	1	0·13	−0·27	*	*
	Leicester	54	28	51·1	36·5	43·8	+ 3·4	4	0·18	−0·21	18	24
	Birmingham (Oscott)	54	30	50·5	36·5	43·5	+ 3·2	1	0·07	−0·48	*	*
	Cheadle ℳ	54	32	49·2	36·0	42·6	+ 2·8	2	0·19	?	*	*
	Churchstoke ℳ	54	28	51·5	35·1	43·3	+ 2·5	2	0·08	?	40	53
	Hereford ℳ	56	28	52·0	36·8	44·4	+ 3·0	1	0·03	−0·39	*	*
	Cirencester	54	29	49·7	34·1	41·9	+ 0·9	1	0·05	−0·43	39	51
	Oxford	56	31	51·1	36·3	43·7	+ 2·3	2	0·08	−0·32	38	50
5. ENGLAND, S.	London†	54	31	50·3	37·0	43·7	+ 1·6	2	0·11	−0·23	23	30
	Marlborough ℳ	55	29	50·0	34·7	42·4	+ 1·4	2	0·05	−0·44	36	47
	Strathfield Turgiss ℳ	56	26	51·5	34·5	43·0	+ 1·1	1	0·13	−0·27	*	*
	Dover	49	35	46·1	38·7	42·4	0·0	3	0·20	−0·22	*	*
	Hastings (St. Leonard's)	53	33	49·1	37·3	43·2	+ 0·9	2	0·13	−0·27	41	54
	Southampton	55	30	52·0	36·0	44·0	+ 1·5	2	0·06	?	37	49
	Hurst Castle	54	32	50·4	36·7	43·6	+ 0·4	1	0·07	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	51	33	48·8	37·4	43·1	+ 2·9	2	0·30	?	*	*
	Glasgow	52	30	48·9	37·5	43·2	+ 3·1	2	0·04	−0·68	18	24
	Ardrossan	51	34	48·0	38·6	43·3	+ 3·0	3	0·16	−0·46	*	*
	Silloth (Cumberland)	56	28	49·9	36·5	43·2	+ 1·9	1	0·03	−0·47	29	39
	Douglas (Isle of Man)	53	32	50·3	38·9	44·6	+ 2·8	2	0·03	−0·67	31	41
7. ENGLAND, N.W.	Barrow-in-Furness	54	36	50·9	38·1	44·5	+ 2·6	1	0·11	?	*	*
	Stonyhurst	53	31	49·8	35·3	42·6	+ 2·1	2	0·35	−0·45	42	56
	Blackpool ℳ	56	29	50·5	35·8	43·2	+ 1·0	2	0·09	−0·41	45	60
	Manchester	55	30	50·8	35·6	43·2	+ 2·3	2	0·09	−0·41	*	*
	Liverpool Obsy (Bidston)	54	35	49·4	38·0	43·7	+ 1·8	2	0·04	−0·26	*	*
	Llandudno ℳ	53	35	51·3	38·5	44·9	+ 2·1	1	0·13	−0·36	39	52
	Holyhead	51	38	49·0	41·0	45·0	+ 1·6	1	0·05	−0·45	*	*
8. ENGLAND, S.W.	Pembroke	51	38	48·4	41·0	44·7	+ 0·4	2	0·04	−0·56	35	46
	Arlington (N. Devon)	55	33	50·4	36·7	43·6	+ 1·6	2	0·07	?	*	*
	Cullompton ℳ	56	30	52·0	36·2	44·1	+ 1·4	1	0·03	?	35	46
	Falmouth	54	35	50·2	44·1	47·2	+ 2·7	0	—	−0·76	36	47
	Plymouth	58	36	52·5	39·9	46·2	+ 1·9	1	0·04	−0·66	38	50
	Prawle Point	57	33	50·7	38·9	44·8	+ 1·1	1	0·01	?	*	*
9. IRELAND, N.	Londonderry	57	32	53·6	37·7	45·7	+ 4·6	2	0·08	−0·52	*	*
	Mullaghmore	53	38	50·1	41·1	45·6	+ 3·7	3	0·15	?	*	*
	Markree Castle	58	27	51·5	37·3	44·4	+ 3·0	1	0·02	−0·68	17	23
	Brookeborough	54	29	50·9	36·8	43·9	+ 3·6	1	0·03	?	*	*
	Armagh	53	29	50·6	37·8	44·2	+ 2·6	1	0·06	−0·44	19	25
	Donaghadee	52	30	49·4	36·7	43·1	+ 0·8	2	0·03	?	*	*
10. IRELAND, S.	Dublin	54	34	51·2	41·5	46·4	+ 3·6	2	0·04	−0·35	25	33
	Parsonstown	55	29	51·1	38·3	44·7	+ 2·9	2	0·07	−0·43	20	27
	Roche's Point	57	37	53·4	43·7	48·6	+ 4·2	0	—	−0·90	*	*
	Valencia	59	38	53·4	43·3	48·4	+ 2·9	2	0·05	−0·94	35	46
	Foynes										*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

METEOROLOGICAL OFFICE,
116, VICTORIA STREET, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 10.] WEEK ENDING MONDAY, MARCH 12, 1883. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. †Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	48	27	39	31	35	5 below.	5	4	0 (average).	30	39
	2. ENGLAND, N.E.	45	8	38	27	33	8 below.	6	7	3 more.	25	32
	3. ENGLAND, E.	47	14	38	26	32	9 below.	6	8	4 more.	33	43
	4. MID. COUNTIES	44	7	39	25	32	10 below.	3	2	2 less.	32	41
	5. ENGLAND, S.	48	20	40	27	34	9 below.	2	2	2 less.	36	46
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	46	24	42	32	37	4 below.	2	less than ½	6 less.	31	39
	7. ENGLAND, N.W.	46	19	40	30	35	8 below.	2	1	4 less.	32	40
	8. ENGLAND, S.W.	51	18	41	30	35	9 below.	1	less than ½	6 less.	44	56
	9. IRELAND, N.	49	24	44	32	38	4 below.	3	1	6 less.	29	37
	10. IRELAND, S.	52	28	44	34	39	5 below.	3	2	5 less.	33	43

General Remarks.

Weather has been generally fair in the W. and S.W., but frequent snow, sleet, or hail showers have been experienced in the eastern and northern districts. In the eastern parts of England the fall of snow was very considerable.

Temperature has been very low everywhere. Over the whole of England it has been as much as from 8° to 10° below the mean, and in Ireland and Scotland 4° or 5°. The maxima were registered in most places at the commencement of the period, when the thermometer rose to between 44° (in the "Midland Counties") and 52° (in "Ireland, S."). The minima, which were recorded either on the 9th or 10th, were extremely low for the season. At Bawtry temperature fell to 7° and at York to 8°, while in all other parts of the Kingdom, except the S. of Ireland and E. of Scotland, readings between 11° and 24° were very general. In "England, E." and the "Midland Counties" the mean for the whole week was as low as 32°.

Rainfall has been more than the mean in the E. and N.E. of England, and equal to it in the E. of Scotland, but decidedly less elsewhere.

Bright sunshine shows a further increase in duration. The percentages were generally rather high, ranging from 56 in "England, S.W." and 46 in "England, S.", to 32 in "England, N.E."

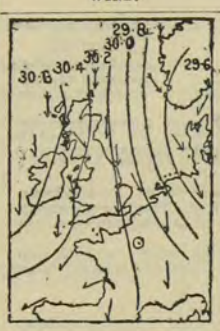
Depressions observed.—Since the issue of the report for last week the distribution of pressure over our area has undergone a complete change. The barometer has been generally highest to the westward of our Islands, while over the North Sea and Scandinavia several depressions have travelled from the northward or north-westward. Fresh to strong northerly to north-easterly winds have consequently prevailed on our coasts, and during the earlier part of the period increased to the force of a gale at all our eastern and northern stations.

R 6156. 100 & 470.—3/83. Wt. 233. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending March 12, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.



CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, March 6.

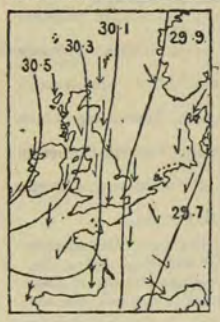
Weather fair in the W. and S.W., but unsettled with frequent snow showers elsewhere.

Temperature fallen quickly in N., risen slightly in W. and S.; readings ranging from 46° at Valencia and Scilly to 27° in the Shetlands. Maxima below 40° in E. and N., and as low as 31° at Sumburgh Head.

Wind north-westerly in Denmark and the S. of Norway, northerly elsewhere; strong to a gale at all but the southern and south-western stations. Gale becoming general later.

Sea very rough on our eastern and northern, as well as on some parts of our western coasts.

Barometer falling at all but extreme northern stations. Readings highest to the westward of Ireland and Scotland, but deep depression lying over the Baltic. Disturbance moving away south-eastwards later, and barometer rising in Scandinavia.



Wednesday, March 7.

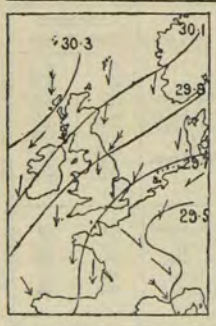
Weather fair in the S.W. and S., but changeable elsewhere, with frequent snow showers. Showery weather subsequently becoming general.

Temperature risen in N., but fallen several degrees at all southern stations; readings ranging from 40° at Scilly to 28° at Sumburgh Head. Maxima again below 40° in E. and N.

Wind northerly on all coasts, and still blowing moderate gale in many parts of our Islands.

Sea still very rough on our eastern and northern, and rough on some parts of our western coasts.

Barometer falling generally. Readings still highest to the westward of our Islands, and lowest over the Baltic, but no definite depression existing in any part of our area.



Thursday, March 8.

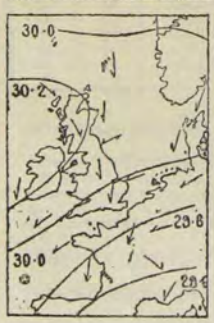
Weather still unsettled, with snow showers in many parts of Great Britain, but fine in Ireland and also on the eastern shores of the North Sea. Some improvement taking place in Scotland later.

Temperature risen extreme N., fallen elsewhere. Readings low over the whole of Western Europe, those in our Islands ranging from 39° at Valencia to 26° at Cambridge. Maxima below 40° at all but a few of the western and southern stations.

Wind fresh or strong north-easterly, with gales at Shields and Donaghadee.

Sea rough on almost all coasts.

Barometer rising over Scandinavia and the N. of Scotland, falling elsewhere. Readings now highest off our N.W. coasts and lowest in the E. of France. Rise of barometer subsequently extending to all parts of our Islands.



Friday, March 9.

Weather fair generally in W. and S., but cloudy in N., and snow showers still continuing in E. No important change later.

Temperature fallen slightly in most places, and readings over our islands ranging from 38° at Donaghadee to 24° at Loughborough. Temperature equally low in France.

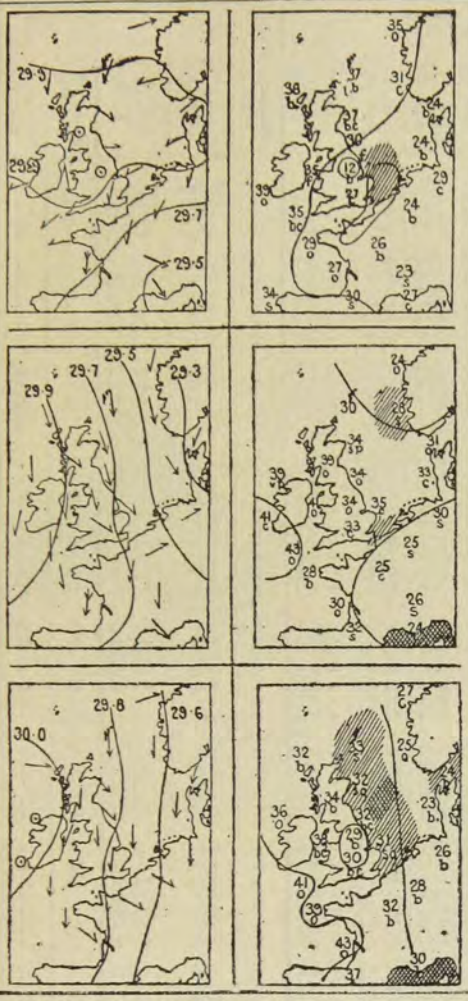
Wind moderate north-westerly in N., but fresh or strong north-easterly elsewhere.

Sea rough on our N.E., E., and S. coasts as well as at Valencia.

Barometer rising at all but extreme northern stations. Area of highest pressure over our W. coasts, with areas of relatively low readings to the northward and southward of our Islands. Mercury subsequently falling generally.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, March 10.

Weather fine at some of the southern stations, cloudy elsewhere, with snow showers in Ireland and the S.E. of England. Snow ceasing later.

Temperature risen in N. and W., but fallen several degrees over central and northern England; readings ranging from 39° at Valencia to 12° at York. Minimum at York only 8°.

Wind north-easterly or easterly at the French and southern stations, but somewhat variable in the more northern districts. Northerly breezes subsequently setting in over the northern parts of the Kingdom.

Sea rather rough off the S.E. of England.

Barometer falling generally. Area of relatively high readings covering our Islands and the North Sea, with low pressures over the N. of Scandinavia and S.E. of France. Mercury subsequently rising in W.

Sunday, March 11.

Weather cloudy in most places, with snow showers at Aberdeen and Spurn Head. Slight snow showers subsequently falling in all parts of the Kingdom.

Temperature fallen N.E., risen elsewhere; readings ranging from 43° at Scilly to 30° at Sumburgh Head and 29° at Hurst Castle.

Wind northerly; fresh or strong in force at some northern and eastern stations. Blowing gale in the E. of England later.

Sea moderate or smooth on nearly all our coasts.

Barometer rising in France and the W. of Ireland, falling elsewhere. Readings again highest off our extreme western coasts, with a depression over the N. of Sweden. Disturbance subsequently moving southward.

Monday, March 12.

Weather fair generally, but snow showers falling at some northern and eastern stations.

Temperature fallen; readings ranging from 41° at Scilly to 29° at Oxford. Rise taking place in W. later.

Wind generally northerly; strong in force at some eastern stations, light or moderate elsewhere. Subsequently backing to N.W. in N.

Sea rough on our E. and N.E. coasts.

Barometer rising at all stations, but general distribution of pressure very little changed, readings being still highest to the westward of our Islands and lowest over Sweden. Rise continuing all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	42	24	36·0	26·1	31·1	−8·0	6	0·28	−0·13	*	*
	Stornoway	46	27	41·9	31·6	36·8	−3·3	6	0·30	−0·67	26	34
	Wick	45	25	39·3	29·1	34·2	−5·0	7	0·59	+0·25	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	47	30	42·3	34·9	38·6	−7·9	6	0·30	−0·20	*	*
	Jersey (Noirmont)	47	26	38·9	32·1	35·5	−8·0	5	0·31	−0·39	43	54

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	42	29	38·0	31·7	34·9	− 4·9	5	0·32	+0·03	*	*
	Aberdeen ⚓	44	27	38·4	29·9	34·2	− 4·8	7	0·62	+0·16	30	39
	Leith	48	29	41·1	30·7	35·9	− 5·0	3	0·15	−0·15	*	*
2. ENGLAND, N.E.	Alnwick Castle	39	26	36·6	28·7	32·7	− 7·1	6	0·72	?	*	*
	Shields	40	25	37·7	27·6	32·7	− 7·6	6	0·93	+0·59	*	*
	Durham	41	21	38·1	25·9	32·0	− 7·7	5	0·90	+0·45	20	26
	Scarborough ⚓	45	24	39·5	29·1	34·3	− 5·7	6	0·66	+0·27	*	*
	York	40	8	37·3	22·0	29·7	−10·9	6	0·60	+0·20	29	37
	Spurn Head	39	28	37·4	30·0	33·7	− 6·6	7	0·54	?	*	*
3. ENGLAND, E.	Hillington ⚓	47	14	40·5	25·8	33·2	− 7·1	7	1·18	+0·81	31	40
	Yarmouth	39	27	36·1	29·1	32·6	− 8·6	7	0·97	+0·52	*	*
	Geldeston	43	21	38·2	27·3	32·8	− 8·5	7	1·15	+0·75	35	44
	Cambridge	40	17	37·9	23·6	30·8	−10·6	3	0·66	+0·35	35	44
	Rothamsted	43	22	36·8	25·5	31·2	− 9·9	4	0·04	−0·36	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	41	7	38·7	21·7	30·2	−11·0	4	0·59	+0·25	*	*
	Loughborough	41	15	39·6	23·9	31·8	− 9·2	3	0·17	−0·23	*	*
	Leicester	42	16	38·0	24·8	31·4	− 9·4	1	0·22	−0·15	19	24
	Birmingham (Oscott)	42	18	37·3	24·5	30·9	− 9·7	2	0·18	−0·35	*	*
	Cheadle ⚓	42	21	37·6	24·7	31·2	− 8·8	3	0·11	?	*	*
	Churchstoke ⚓	43	11	37·8	23·0	30·4	−10·5	3	0·11	?	33	42
	Hereford ⚓	44	17	39·3	26·5	32·9	− 8·9	2	0·02	−0·38	*	*
	Cirencester	43	21	37·7	26·9	32·3	− 9·1	2	0·09	−0·36	40	51
	Oxford	42	21	39·6	26·6	33·1	− 8·7	3	0·05	−0·35	37	47
5. ENGLAND, S.	London†	41	24	38·3	27·9	33·1	− 9·5	2	0·08	−0·25	28	36
	Marlborough ⚓	43	20	37·7	24·6	31·2	−10·2	2	0·05	−0·40	36	46
	Strathfield Turgiss ⚓	43	21	39·6	25·5	32·6	− 9·7	1	0·01	−0·34	*	*
	Dover	41	28	36·9	30·1	33·5	− 9·2	6	0·61	+0·18	*	*
	Hastings (St. Leonard's)	44	25	38·7	28·1	33·4	− 9·2	5	0·55	+0·15	35	44
	Southampton	44	23	40·6	27·2	33·9	− 9·1	0	—	?	44	56
	Hurst Castle	48	25	44·9	28·3	36·6	− 6·9	0	—	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	44	31	42·2	33·2	37·7	− 2·6	2	0·05	?	*	*
	Glasgow	43	28	41·1	32·4	36·8	− 3·6	3	0·05	−0·59	26	33
	Ardrossan	46	30	42·7	32·6	37·7	− 2·9	1	0·01	−0·58	*	*
	Silloth (Cumberland)	45	24	40·1	29·7	34·9	− 6·8	1	0·05	−0·41	32	41
	Douglas (Isle of Man)	44	27	41·5	30·2	35·9	− 6·2	1	0·01	−0·66	35	44
7. ENGLAND, N.W.	Barrow-in-Furness	45	27	41·9	30·1	36·0	− 6·3	3	0·06	?	*	*
	Stonyhurst	46	21	39·9	25·9	32·9	− 8·0	3	0·08	−0·72	35	44
	Blackpool ⚓	42	24	39·2	29·0	34·1	− 8·3	1	0·01	−0·48	34	44
	Manchester	43	19	37·8	25·4	31·6	− 9·6	2	0·26	−0·23	*	*
	Liverpool Obsy (Bidston)	43	25	38·9	30·9	34·9	− 7·2	2	0·02	−0·28	*	*
	Llandudno ⚓	45	27	39·3	31·2	35·3	− 7·8	1	0·01	−0·44	26	33
	Holyhead	44	30	40·6	34·9	37·8	− 5·8	3	0·08	−0·40	*	*
8. ENGLAND, S.W.	Pembroke	45	28	40·1	31·9	36·0	− 8·6	3	0·05	−0·55	40	51
	Arlington (N. Devon)	45	20	39·0	27·6	33·3	− 8·9	0	—	?	*	*
	Cullompton ⚓	48	18	40·7	27·7	34·2	− 8·7	1	0·01	?	44	56
	Falmouth	46	27	40·6	32·1	36·4	− 8·4	2	0·06	−0·65	45	57
	Plymouth	49	25	43·3	29·3	36·3	− 8·3	1	0·02	−0·65	47	59
	Prawle Point	51	23	43·0	28·1	35·6	− 8·3	0	—	?	*	*
9. IRELAND, N.	Londonderry	49	29	45·9	31·6	38·8	− 2·6	5	0·19	−0·41	*	*
	Mullaghmore	46	31	44·6	35·0	39·8	− 2·6	4	0·07	?	*	*
	Markree Castle	47	24	44·9	29·9	37·4	− 4·5	2	0·01	−0·71	36	46
	Brookeborough	44	27	43·2	30·2	36·7	− 3·8	2	0·10	?	*	*
	Armagh	45	28	41·8	31·7	36·8	− 5·1	0	0·01‖	−0·56	21	27
	Donaghadee	44	32	42·3	34·3	38·3	− 4·5	3	0·05	?	*	*
10. IRELAND, S.	Dublin	46	31	41·8	33·2	37·5	− 5·5	2	0·04	−0·35	26	33
	Parsonstown	45	28	42·7	30·6	36·7	− 5·5	1	0·03	−0·48	33	46
	Roche's Point	50	30	45·4	33·7	39·6	− 5·0	3	0·26	−0·56	*	*
	Valencia	52	34	47·4	37·0	42·2	− 3·5	4	0·25	−0·71	40	51
	Foynes										*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

‖ Dew.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 11.] WEEK ENDING MONDAY, MARCH 19, 1883. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	46	25	39	39	34	6 below.	7	12	9 more.	22	27
	2. ENGLAND, N.E.	44	19	40	28	34	7 below.	5	7	3 more.	33	41
	3. ENGLAND, E.	48	23	41	28	34	7 below.	5	4	0 (average).	16	20
	4. MID. COUNTIES	50	22	42	27	34	7 below.	4	6	2 more.	24	30
	5. ENGLAND, S.	51	21	44	29	36	7 below.	3	5	1 more.	27	33
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	47	23	41	29	35	6 below.	5	4	1 less.	23	28
	7. ENGLAND, N.W.	48	23	42	29	35	7 below.	4	6	1 more.	23	28
	8. ENGLAND, S.W.	48	19	44	30	37	7 below.	5	7	1 more.	31	38
	9. IRELAND, N.	49	20	43	29	36	6 below.	6	3	2 less.	35	42
	10. IRELAND, S.	51	26	45	32	39	6 below.	4	5	2 less.	33	46

General Remarks.

Weather, although fine and bright occasionally in all places, has been generally cloudy, with frequent showers of snow, hail, or rain. In the W. and E. of Scotland the fall of snow has been very heavy.

Temperature has again been below the mean in all districts, the deficit in Ireland and Scotland being 6°, and in England 7°. The maxima were registered in most places on the first day of the period, when the thermometer rose to between 44° in "England, N.E." and 51° in "England, S." and "Ireland, S." The minima which were recorded on different days in the various districts, were as low as 19° in "England, N.E." and "England, S.W.", and from 20° to 26° elsewhere.

Rainfall has been rather less than the mean in "Scotland, W." and in Ireland, and about equal to it in "England, E.", but more in all other districts. In "Scotland, E." the excess has been very considerable.

Bright sunshine has been less prevalent than during last week in nearly all except the Irish districts. The percentages varied from 20 in "England, E." to 41 in "England, N.E." and 46 in "Ireland, S."

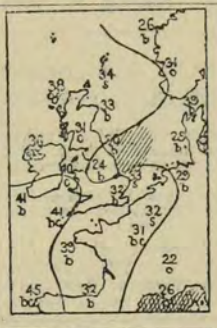
Depressions observed.—The changes in barometric pressure over our area have been rather singular. At the commencement of the period the barometer was highest over the Bay of Biscay and lowest over Norway and Sweden, the winds in our Islands consequently being north-westerly. On the 14th, a band of comparatively low readings extended from N. Germany westwards to Ireland, while the barometer was highest in the S. of France and N. of Norway. This area of low pressure subsequently moved southwards, and, after causing the wind to shift to the north-eastward or eastward on all our coasts, finally dispersed over France. In the meantime a depression was approaching our Islands from Scandinavia, and by 6 P.M. on the 16th its centre lay a little to the eastward of the Yorkshire coast. As it continued its passage westwards the wind in Ireland and England shifted to between N. and W. and blew freshly or strongly, while in Scotland strong easterly and north-easterly gales were experienced. At the close of the period a brisk fall of the mercury was taking place over France, the wind had returned to N.E. or E. in Ireland and England, and the gales in Scotland had moderated.

[6267. 100 & 470.—3/83. Wt. 182. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending March 19, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, March 13.

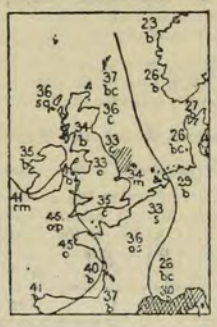
Weather cloudy in the extreme N. and N.W., with snow at Sumburgh Head and showers of rain at Mullaghmore. Snow, hail, or cold rain falling generally later.

Temperature fallen in France, but risen slightly over our Islands; readings ranging from 41° at Valencia and Scilly to 24° at York.

Wind north-easterly in S.W. of France, but westerly or north-westerly elsewhere; light or moderate in force generally.

Sea rough off the N.E. of England.

Barometer falling on our extreme N. and N.W. coasts, rising elsewhere. Highest pressures over the Bay of Biscay, and lowest to the eastward of Sweden. Fall taking place in all parts of our Islands later.



Wednesday, March 14.

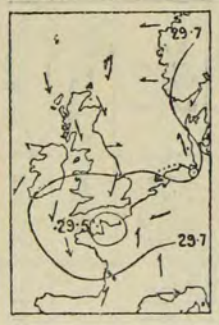
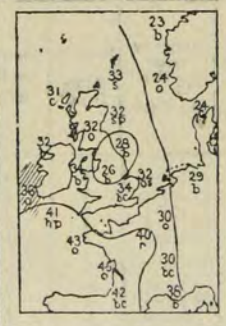
Weather fine and bright in Scandinavia, but varying considerably over different parts of our Islands; snow falling at Stornoway and Leith. Cold showers falling generally later.

Temperature risen at the southern and French stations; readings ranging from 45° at Scilly to 29° at Loughborough.

Wind easterly or north-easterly in N., but westerly in S., with variable air at the intermediate stations. North-easterly winds extending southward later.

Sea rather rough at Stornoway and Spurn Head, moderate or slight on our other coasts.

Barometer rising over Scandinavia and the N. of Scotland, falling elsewhere. Readings relatively high over the S. of France and N. of Scandinavia, with low pressure area over the southern portion of the North Sea. Rise of barometer extending to our E. coasts later.

Thursday, March 15.

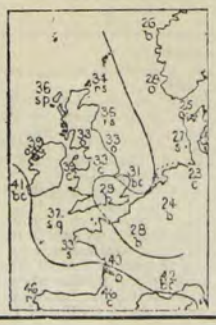
Weather fair in the northern parts of England and Ireland, cloudy elsewhere, with snow in Scotland and cold showers in the S. of England. Showers of snow or cold rain falling generally later.

Temperature fallen in most places; readings ranging from 41° at Scilly to 26° at York.

Wind northerly in Scandinavia and Scotland, north-easterly at our southern stations, and north-westerly or westerly in the Bay of Biscay. Strong in force in the S. and S.W.

Sea rather rough at Valencia, slight or smooth elsewhere.

Barometer falling generally. Small but well defined depression lying over Normandy, and larger disturbance shown over the Baltic. Former subsequently dispersing, but latter advancing westwards.



Friday, March 16.

Weather fine at some of the southern stations, cloudy elsewhere, with snow in Scotland. Sleet or cold rain falling in E. of England later, and thunder and lightning occurring at Aberdeen at night.

Temperature risen at all but the southern stations; readings ranging from 41° at Valencia to 28° at Oxford.

Wind easterly in Scandinavia, but northerly on our northern coasts, north-westerly in the W. and S.W., and westerly in the S.E.; moderate or fresh in force generally.

Sea moderate or smooth.

Barometer rising over Sweden and France, falling elsewhere. Depression noticed over Normandy on previous day quite disappeared, but northern disturbance still advancing in a westerly direction across the North Sea.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, March 17.

Weather showery and unsettled generally, with snow in Scotland. Snow continuing to fall heavily in the N. all day.

Temperature risen S., fallen elsewhere; readings ranging from 44° at Valencia and Scilly to 28° at York. Maxima below 40° at all northern stations.

Wind moderate north-westerly in W., and westerly in S., but strong to a gale from N.E. in Scotland. Gale in N. continuing all day.

Sea very high off the N.E. of Scotland and rough off the W. of Ireland.

Barometer falling over England and Ireland, rising elsewhere. Depression noticed over North Sea on previous day now lying off the N.E. of England and growing deeper. Barometer rising in Ireland later.

Sunday, March 18.

Weather fine at some of the English and Irish stations, but snow still falling in Scotland. Lightning seen in the S. of Ireland at night.

Temperature risen slightly except S.W.; readings ranging from 40° at Scilly to 30° at Parsonstown. Maxima again below 40° in N.

Wind southerly in E., easterly in N., northerly in W., and north-westerly or westerly in S. Strong to a gale in the N. of Scotland, but light or moderate in force at our southern stations.

Sea very high off the N.E. of Scotland.

Barometer rising over Scandinavia and our eastern coasts, falling elsewhere. Depression of previous day dispersing, and moving in a westerly direction across our more northern districts. Rise of barometer extending to all but extreme western stations later.

Monday, March 19.

Weather fine in the W. and S. of England, cloudy elsewhere, with snow or cold rain in many places. Rain continuing in E. and S.E. all day.

Temperature risen slightly at the majority of stations, but still low generally; readings ranging from 43° at Scilly to 28° at Oxford.

Wind south-easterly in N. but north-easterly in S. Strong breezes still reported from Scotland, but gale of previous two days quite subsided.

Sea very rough off our N.E. coasts.

Barometer falling France, rising elsewhere. Large area of high pressure over Scandinavia, and small depression advancing in a north-easterly direction over the S.W. of France. Fall of barometer extending to S. of England later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	•	•
SCOTLAND, N.	Sumburgh Head											
	Stornoway	43	28	40·7	29·4	35·1	−5·2	7	0·54	−0·38	34	41
	Wick	41	26	38·0	29·6	33·8	−5·5	7	0·88	+0·54	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	48	32	45·7	36·4	41·1	−5·5	7	0·74	+0·26	•	•
	Jersey (Noirmont)	47	30	42·7	33·9	38·3	−5·5	6	1·61	+0·86	24	29

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	38	26	37·0	29·9	33·5	− 6·6	7	1·11	+0·81	*	*
	Aberdeen	41	25	38·7	29·0	33·9	− 5·3	7	1·95	+1·54	22	27
	Leith	46	27	40·0	29·1	34·6	− 6·7	6	0·55	+0·28	*	*
2. ENGLAND, N.E.	Alnwick Castle	40	25	38·3	29·4	33·9	− 6·1	7	1·91	?	*	*
	Shields	41	25	39·3	27·6	33·5	− 7·0	6	0·66	+0·29	*	*
	Durham	41	19	38·9	25·6	32·3	− 7·6	6	0·51	+0·10	30	37
	Scarborough ℔	44	24	39·7	29·5	34·6	− 5·6	5	0·54	+0·15	*	*
	York	44	20	42·1	24·9	33·5	− 7·4	3	0·36	−0·02	36	44
	Spurn Head	41	29	39·1	30·7	34·9	− 5·7	3	0·27	?	*	*
3. ENGLAND, E.	Hillington ℔	45	23	40·2	26·0	33·1	− 7·4	6	0·34	0·00	14	17
	Yarmouth	40	25	37·7	29·7	33·7	− 7·7	7	0·52	+0·12	*	*
	Geldeston	45	25	40·0	29·3	34·7	− 6·8	4	0·38	0·00	12	15
	Cambridge	45	24	43·3	27·3	35·3	− 6·4	3	0·26	−0·04	23	28
	Rothamsted	48	23	42·6	27·5	35·1	− 6·3	4	0·37	−0·02	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	44	25	41·6	28·6	35·1	− 6·4	4	0·40	+0·06	*	*
	Loughborough	45	27	41·7	27·9	34·8	− 6·4	4	0·45	+0·05	*	*
	Leicester	44	26	41·4	27·9	34·7	− 6·3	5	0·51	+0·14	15	18
	Birmingham (Oscott)	43	24	39·8	26·3	33·1	− 7·8	5	0·86	+0·34	*	*
	Cheadle ℔	43	24	39·5	26·2	32·9	− 7·3	3	0·78	?	*	*
	Churchstoke ℔	43	22	39·4	25·5	32·5	− 8·5	5	0·74	?	22	27
	Hereford ℔	50	22	44·5	27·5	36·0	− 6·0	5	0·47	+0·10	*	*
	Cirencester	45	22	41·6	25·9	33·8	− 8·0	4	0·51	+0·07	28	34
	Oxford	49	24	44·4	28·1	36·3	− 5·9	3	0·56	+0·16	32	39
5. ENGLAND, S.	London†	50	26	43·9	30·3	37·1	− 5·8	3	0·43	+0·09	14	17
	Marlborough ℔	47	21	42·6	26·3	34·5	− 7·3	3	0·59	+0·14	33	40
	Strathfield Turgiss ℔	49	22	44·9	26·6	35·8	− 6·9	2	0·48	+0·14	*	*
	Dover	45	27	40·9	31·3	36·1	− 6·9	4	0·69	+0·24	*	*
	Hastings (St. Leonard's)	47	25	42·1	31·1	36·6	− 6·3	4	0·40	−0·05	29	35
	Southampton	51	24	46·2	28·9	37·6	− 5·8	4	0·47	?	32	39
	Hurst Castle	48	25	45·1	29·7	37·4	− 6·4	3	0·46	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	45	25	40·8	29·3	35·1	− 5·4	5	0·42	?	*	*
	Glasgow	45	27	39·8	29·0	34·4	− 6·3	6	0·49	−0·04	16	20
	Ardrossan	47	26	42·0	28·9	35·5	− 5·3	3	0·33	−0·20	*	*
	Silloth (Cumberland)	45	23	41·2	28·0	34·6	− 7·4	3	0·36	−0·04	20	24
	Douglas (Isle of Man)	43	29	41·3	30·0	35·7	− 6·6	6	0·34	−0·27	33	40
7. ENGLAND, N.W.	Barrow-in-Furness	46	27	42·9	30·1	36·5	− 6·1	4	0·42	?	*	*
	Stonyhurst	47	25	41·9	26·7	34·3	− 6·9	3	0·52	−0·20	27	33
	Blackpool ℔	44	23	41·1	27·5	34·3	− 8·5	4	0·53	+0·07	?	?
	Manchester ℔	43	24	39·8	26·4	33·1	− 8·4	2	0·63	+0·14	*	*
	Liverpool Obsy (Bidston)	42	26	40·4	30·3	35·4	− 6·9	5	0·52	+0·19	*	*
	Llandudno ℔	46	26	41·5	31·3	36·4	− 6·9	6	0·79	+0·39	18	22
	Holyhead	48	31	42·7	33·0	37·9	− 5·8	6	0·52	+0·06	*	*
8. ENGLAND, S.W.	Pembroke	47	30	42·9	33·0	38·0	− 6·8	4	0·19	−0·41	36	44
	Arlington (N. Devon)	46	19	42·4	27·4	34·9	− 7·5	7	0·60	?	*	*
	Cullompton ℔	47	20	44·3	27·1	35·7	− 7·4	5	0·80	?	29	35
	Falmouth	47	31	44·5	34·1	39·3	− 5·7	6	1·27	+0·61	35	43
	Plymouth	48	26	44·9	28·7	36·8	− 8·0	5	0·47	−0·18	23	28
	Prawle Point	48	27	44·3	31·1	37·7	− 6·3	5	0·80	?	*	*
9. IRELAND, N.	Londonderry	49	26	43·3	28·8	36·1	− 5·5	4	0·82	+0·26	*	*
	Mullaghmore	47	30	44·3	32·0	38·2	− 4·5	6	0·20	?	*	*
	Markree Castle	46	20	44·1	24·8	34·5	− 7·8	4	0·09	−0·59	36	44
	Brookeborough	44	21	41·7	25·4	33·6	− 7·1	5	0·23	?	*	*
	Armagh	43	25	41·4	28·8	35·1	− 7·0	7	0·20	−0·20	33	40
	Donaghadee	44	29	42·6	31·1	36·9	− 6·3	7	0·34	?	*	*
10. IRELAND, S.	Dublin	45	29	41·9	31·1	36·5	− 6·7	4	0·21	−0·19	29	35
	Parsonstown	48	26	44·7	28·0	36·4	− 6·2	2	0·06	−0·49	40	49
	Roche's Point	48	31	45·6	33·9	39·8	− 4·8	4	0·47	−0·32	*	*
	Valencia	51	32	46·7	35·4	41·1	− 4·6	7	1·17	+0·24	45	55
	Foynes										*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 12.] WEEK ENDING MONDAY, MARCH 26, 1883. [*Price 2d.* [*Annual subscription, post paid*, 12s. 6d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Rawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	49	23	40	30	35	6 below.	4	4	0 (average).	26	30
	2. ENGLAND, N.E.	46	25	39	30	34	8 below.	4	2	2 less.	19	22
	3. ENGLAND, E.	49	18	40	28	34	9 below.	3	2	2 less.	33	38
	4. MID. COUNTIES	48	17	39	27	33	10 below.	3	1	3 less.	29	34
	5. ENGLAND, S.	50	14	43	30	37	8 below.	2	1	3 less.	40	46
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	51	24	42	31	36	6 below.	2	2	3 less.	28	32
	7. ENGLAND, N.W.	48	21	40	30	35	9 below.	2	2	2 less.	17	19
	8. ENGLAND, S.W.	50	19	43	31	37	8 below.	4	4	2 less.	41	48
	9. IRELAND, N.	52	21	43	31	37	6 below.	4	4	2 less.	29	33
	10. IRELAND, S.	52	19	45	32	38	7 below.	2	2	3 less.	30	35

General Remarks.

Weather has been much finer than during last week, though occasional showers of hail, snow, or cold rain have been experienced.

Temperature has remained below the mean in all districts, the deficit varying from 6° or 7° in Ireland and Scotland to between 8° and 10° over England. The maxima, which were registered towards the end of the period, were rather low everywhere, ranging from 46° in "England, N.E." to 52° in Ireland. The minima were generally recorded on the 24th, when the thermometer fell to 14° in "England, S.", 17° in the "Midland Counties", 18° in "England, N.E.", and to between 19° and 25° elsewhere. At some of our south-eastern stations the minima registered during this period were lower than any recorded during the winter.

Rainfall has been less than the mean in nearly all districts.

Bright sunshine has been less prevalent than during last week in Ireland, but rather more so in most parts of Great Britain. The percentage of possible duration ranged from 48 in "England, S.W." and 46 in "England, S.", to 19 in "England, N.W."

Depressions observed.—During the first part of this period pressure was highest over Scandinavia and off the N. of Scotland, and lowest over France and our southern coasts. The resulting gradients for easterly or north-easterly winds were steepest on the 22nd, when gales or strong winds prevailed on all except our northern coasts. After the 23rd, however, a large depression appeared over Scandinavia, causing the barometer to fall rapidly and remain low over all the north-eastern parts of our area, while the highest pressure was transferred to our south-western stations. The winds consequently shifted to the north-westward or northward over the whole Kingdom, and on the 24th and 25th blew strongly on all our coasts.

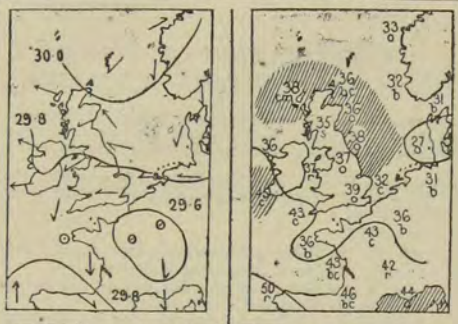
R 6345. 100 & 470.—3/83. Wt. 182. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending March 26, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Tuesday, March 20.

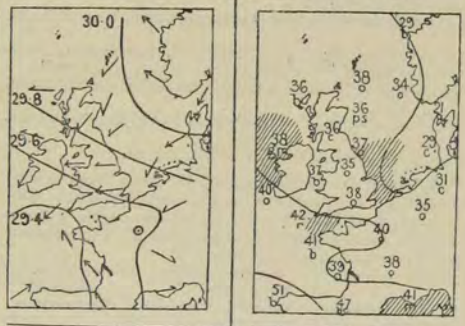
Weather fair in Scandinavia, Ireland, and the W. of France, very cloudy elsewhere, with rain or sleet at some of the northern stations. Cold rain falling in W. and S. later.

Temperature changed irregularly; readings ranging from 45° at Valencia to 27° at Parsonstown. Maximum below 40° at many eastern and northern stations.

Wind northerly in Scandinavia and the W. of France, but easterly in our Islands; fresh or strong in force in many places.

Sea rough on our N. and E. coasts, and at Valencia.

Barometer falling generally—quickly in Sweden. Readings highest to the northward of our Islands, with a large but somewhat shallow depression over the E. of France. Rise taking place over Scandinavia later.



Wednesday, March 21.

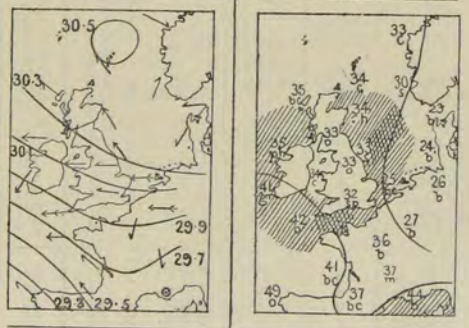
Weather fine in Sweden and at some of our northern stations, cloudy elsewhere, with rain at Scilly. No important change later.

Temperature still low generally; readings ranging from 42° at Scilly to 34° in several parts of northern and central England. Maximum at Loughborough only 35°.

Wind south-easterly in the W. of France, north-easterly or easterly elsewhere; strong in force at many of the southern stations. Strong breezes extending to all coasts later.

Sea rough on our E., S., and N.W. coasts.

Barometer rising over Scandinavia, Denmark, and the E. of our Islands, falling elsewhere—most in S.W. Pressure highest in far N., and lowest off our S.W. coasts. General rise of barometer taking place later.



Thursday, March 22.

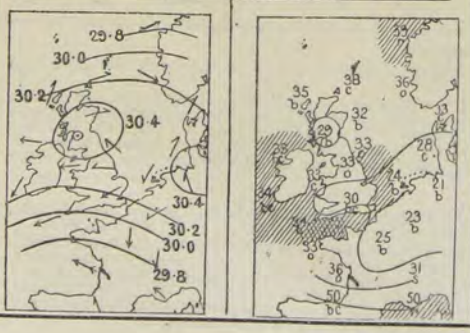
Weather changeable, with showers of snow or soft hail in many places. Showers ceasing during latter part of day.

Temperature fallen; readings ranging from 42° at Scilly to 30° over central England. Thermometer at many of the central and eastern stations not rising above freezing point all day.

Wind generally easterly or south-easterly; strong to a gale at many of the English and Irish stations.

Sea high on our N.E. coasts, rough in the E., S., and W.

Barometer rising excepting in the N. of Scandinavia, where slight fall. Pressure highest near the Shetlands, and lowest to the south-westward of our Islands, with rather steep gradients intervening.



Friday, March 23.

Weather dull in Scandinavia and the N. of Scotland, with rain in some places, but generally fine elsewhere.

Temperature risen at most stations; readings ranging from 43° at Sumburgh Head, Valencia, and Scilly to 31° at Cambridge. Maxima again below 40° in the E. and S.E. of England.

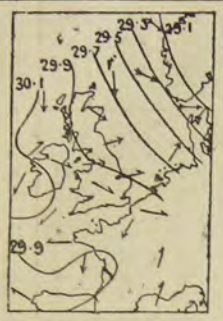
Wind strong westerly at the Scandinavian and northern stations, but easterly in the S. and over France.

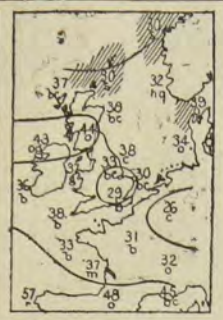
Sea rough on most exposed parts of our coasts.

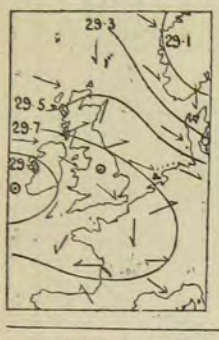
Barometer rising France, falling elsewhere. Pressure now highest over the northern parts of England and Ireland, but lowest over the N. of Norway, and relatively low in the S. of France.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, March 24.

Weather still fair at all but extreme northern stations, where sky cloudy, with some snow. Showers of snow or cold rain falling in E. and S.E. later.

Temperature risen generally; readings ranging from 44° at Ardrossan to 24° at Oxford. Minima below 20° at some of the inland stations, but maxima higher than of late.

Wind strong northerly in N., fresh westerly in E., and light north-easterly in S. Northerly winds becoming general later.

Sea rather rough at Sumburgh Head, moderate or smooth elsewhere.

Barometer still rising in France, but falling over our Islands and Scandinavia. Highest pressure found over Ireland and large area of low readings over Sweden. Latter moving south-eastwards later, and barometer rising in N.

Sunday, March 25.

Weather fair at most of the English stations, cloudy elsewhere, with snow in Scotland. Snow or cold rain extending southwards later.

Temperature risen in the S., fallen in the N.; readings ranging from 43° at Mullaghmore to 28° at Loughborough.

Wind north-westerly at all but the French and southern stations, where north-easterly or easterly; light or moderate in force on most of our coasts. Subsequently veering to N. in Scotland, and blowing strongly.

Sea moderate or slight generally.

Barometer falling at all stations—quickly in the N. of Scotland. Readings still highest over Ireland, but well defined depression travelling in a south-south-easterly direction across the N. and E. of Scotland. Disturbance reaching the N.E. of England in evening and barometer rising in N.

Monday, March 26.

Weather changeable and unsettled, with snow showers in almost all localities.

Temperature fallen N. and W., risen S.; readings ranging from 44° at Scilly to 30° at Nairn. Maxima again below 40° in N. and E.

Wind northerly and north-westerly; moderate or fresh on on all our coasts.

Sea rather rough at Shields, Barrow-in-Furness, and Scilly, moderate or slight elsewhere.

Barometer falling at all but the Swedish stations. Readings highest to the south-westward of our Islands, and depression noticed on previous day now lying near Holstein. Rise taking place over our Islands generally during latter part of day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⇒ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	44	26	39·4	30·6	35·0	−5·0	5	0·20	−0·15	*	*
	Stornoway	45	26	41·4	30·7	36·1	−5·1	4	0·51	−0·39	35	41
	Wick	44	23	40·1	29·7	34·9	−5·3	6	0·85	+0·54	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	47	32	45·3	37·1	41·2	−6·1	3	0·26	−0·20	*	*
	Jersey (Noirmont)	48	29	42·3	34·3	38·3	−6·8	3	0·33	−0·42	41	48

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	43	23	38·6	29·1	33·9	− 7·3	3	0·33	+0·03	*	*
	Aberdeen	43	27	39·3	31·0	35·2	− 5·1	6	0·66	+0·25	26	30
	Leith	49	28	42·1	31·0	36·6	− 5·8	2	0·07	−0·18	*	*
2. ENGLAND, N.E.	Alnwick Castle	42	27	38·1	29·3	33·7	− 7·4	5	0·12	?	*	*
	Shields	43	26	38·7	29·6	34·2	− 7·4	4	0·24	−0·10	*	*
	Durham	45	25	39·1	28·2	33·7	− 7·4	5	0·23	−0·17	20	23
	Scarborough ℔	44	27	38·6	30·7	34·7	− 6·7	4	0·36	+0·01	*	*
	York	46	25	40·3	29·4	34·9	− 7·5	4	0·13	−0·22	17	20
	Spurn Head	40	26	37·1	31·1	34·1	− 7·8	2	0·08	?	*	*
3. ENGLAND, E.	Hillington ℔	43	18	39·4	27·8	33·6	− 8·5	3	0·13	−0·22	27	31
	Yarmouth	41	25	37·4	29·3	33·4	− 9·5	3	0·45	+0·05	*	*
	Geldeston	46	21	40·2	28·9	34·6	− 8·5	3	0·19	−0·17	37	43
	Cambridge	49	19	41·0	27·6	34·3	− 9·0	1	0·05	−0·25	34	40
	Rothamsted	45	19	40·8	27·6	34·2	− 8·8	4	0·19	−0·29	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	42	21	38·3	28·3	33·3	− 9·7	2	0·16	−0·19	*	*
	Loughborough	44	21	39·1	28·0	33·6	− 9·2	2	0·08	−0·32	*	*
	Leicester	45	20	39·2	27·9	33·6	− 9·0	3	0·09	−0·26	22	27
	Birmingham (Oscott)	44	19	39·2	26·6	32·9	− 9·5	4	0·15	−0·35	*	*
	Cheadle ℔	41	21	36·7	26·6	31·7	− 9·6	4	0·16	?	*	*
	Churchstoke ℔	45	17	38·0	25·5	31·8	−10·8	3	0·30	?	20	23
	Hereford ℔	48	18	41·0	27·5	34·3	− 9·2	4	0·16	−0·19	*	*
	Cirencester	47	17	40·3	27·6	34·0	− 9·2	2	0·07	−0·23	36	42
	Oxford	46	21	41·4	28·3	34·9	− 9·1	2	0·05	−0·32	36	42
5. ENGLAND, S.	London†	47	21	42·3	30·3	36·3	− 7·9	1	0·02	−0·31	32	37
	Marlborough ℔	47	19	41·2	26·8	34·0	− 9·0	2	0·11	−0·34	38	44
	Strathfield Turgiss ℔	49	14	43·6	27·5	35·6	− 8·3	1	0·02	−0·32	*	*
	Dover	44	27	40·4	31·9	36·2	− 8·3	3	0·15	−0·30	*	*
	Hastings (St. Leonard's)	48	26	43·5	32·1	37·8	− 6·4	3	0·03	−0·37	45	52
	Southampton	50	23	44·3	30·1	37·2	− 7·4	2	0·03	?	43	50
	Hurst Castle	47	24	44·9	31·7	38·3	− 6·7	3	0·14	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	44	29	42·0	32·2	37·1	− 4·6	3	0·39	?	*	*
	Glasgow	48	28	40·8	31·1	36·0	− 5·9	2	0·24	−0·26	20	23
	Ardrossan	48	24	43·3	30·3	36·8	− 5·1	2	0·07	−0·43	*	*
	Silloth (Cumberland)	51	24	43·1	29·1	36·1	− 7·1	1	0·03	−0·35	33	38
	Douglas (Isle of Man)	47	27	41·2	30·1	35·7	− 7·7	2	0·44	−0·15	31	36
7. ENGLAND, N.W.	Barrow-in-Furness	48	28	42·1	30·9	36·5	− 7·4	3	0·17	?	*	*
	Stonyhurst	43	22	39·3	27·8	33·6	− 8·9	2	0·13	−0·56	15	17
	Blackpool ℔	44	24	39·8	29·1	34·5	− 9·5	1	0·09	−0·32	21	24
	Manchester	42	21	38·0	27·0	32·5	−10·1	2	0·14	−0·34	*	*
	Liverpool Obsy (Bidston)	45	29	39·9	31·1	35·5	− 8·0	3	0·29	−0·01	*	*
	Llandudno ℔	43	26	39·8	31·1	35·5	− 9·1	2	0·25	−0·15	14	16
	Holyhead	47	30	41·0	32·6	36·8	− 8·0	3	0·37	+0·01	*	*
8. ENGLAND, S.W.	Pembroke	45	28	41·0	32·6	36·8	− 9·2	3	0·09	−0·51	39	45
	Arlington (N. Devon)	44	19	40·4	28·4	34·4	− 9·4	4	0·17	?	*	*
	Cullompton ℔	49	20	42·4	30·0	36·2	− 8·3	4	0·26	?	41	48
	Falmouth	45	28	43·2	33·8	38·5	− 7·4	3	0·76	+0·16	42	49
	Plymouth	50	25	45·0	31·3	38·2	− 7·7	3	0·26	−0·34	43	50
	Prawle Point	49	25	43·1	31·9	37·5	− 7·6	4	0·58	?	*	*
9. IRELAND, N.	Londonderry	51	21	44·9	28·7	36·8	− 6·1	5	0·65	+0·09	*	*
	Mullaghmore	49	30	44·0	33·7	38·9	− 5·0	4	0·29	?	*	*
	Markree Castle	52	21	45·3	29·5	37·4	− 6·2	3	0·08	−0·52	33	38
	Brookeborough	49	27	42·7	29·5	36·1	− 6·2	4	0·51	?	*	*
	Armagh	48	25	41·4	30·3	35·9	− 7·4	4	0·30	−0·10	25	28
	Donaghadee	48	29	42·0	32·7	37·4	− 6·8	4	0·26	?	*	*
10. IRELAND, S.	Dublin	48	25	42·1	31·4	36·8	− 7·6	3	0·50	−0·06	20	23
	Parsonstown	50	19	44·1	27·1	35·6	− 8·3	2	0·08	−0·47	33	38
	Roche's Point	49	30	45·3	33·9	39·6	− 5·9	2	0·07	−0·68	*	*
	Valencia	52	32	47·0	35·3	41·2	− 5·3	2	0·28	−0·12	37	43
	Foynes										*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 13.] WEEK ENDING MONDAY, APRIL 2, 1883. [*Price 2d.*
[*Annual subscription post paid*, 12*s.* 6*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	59	23	46	32	39	4 below.	4	3	0 (average).	40	45
	2. ENGLAND, N.E.	62	25	47	32	40	4 below.	2	2	2 less.	48	54
	3. ENGLAND, E.	65	22	50	30	40	5 below.	2	1	2 less.	52	58
	4. MID. COUNTIES	64	22	52	30	41	4 below.	2	2	2 less.	42	48
	5. ENGLAND, S.	66	21	51	33	42	4 below.	3	3	1 less.	42	46
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	60	25	47	34	41	3 below.	4	15	2 more.	45	50
	7. ENGLAND, N.W.	62	25	49	33	41	4 below.	3	5	1 more.	42	48
	8. ENGLAND, S.W.	58	28	50	36	43	4 below.	4	5	1 less.	45	50
	9. IRELAND, N.	59	21	49	33	41	4 below.	5	10	5 more.	30	34
	10. IRELAND, S.	58	25	50	36	43	3 below.	4	11	4 more.	33	37

General Remarks.

Weather has been generally fine and bright in most parts of Great Britain, but less settled and rather rainy in Ireland and the W. of Scotland.

Temperature has again been below the mean for the season in all districts, the deficit varying from 3° in "Scotland, W." and "Ireland, S.", to 5° in "England, E." The thermometer was lowest during the earlier part of the period, when minima ranging between 21° in "Ireland, N." and 28° in "England, S.W." were recorded. Towards the end of the week, however readings were much higher, maxima of 66° being registered in "England, S.", 65° in "England, E.", and from 58° to 64 elsewhere.

Rainfall has been more than the mean in Ireland, "England, N.W.", and "Scotland, W.", and equal to it in "Scotland, E.", but less elsewhere.

Bright sunshine shows a considerable increase in duration in all places. The percentages were generally rather large, varying from 58 in "England, E.", to 37 in "Ireland, S.", and 34 in "Ireland, N."

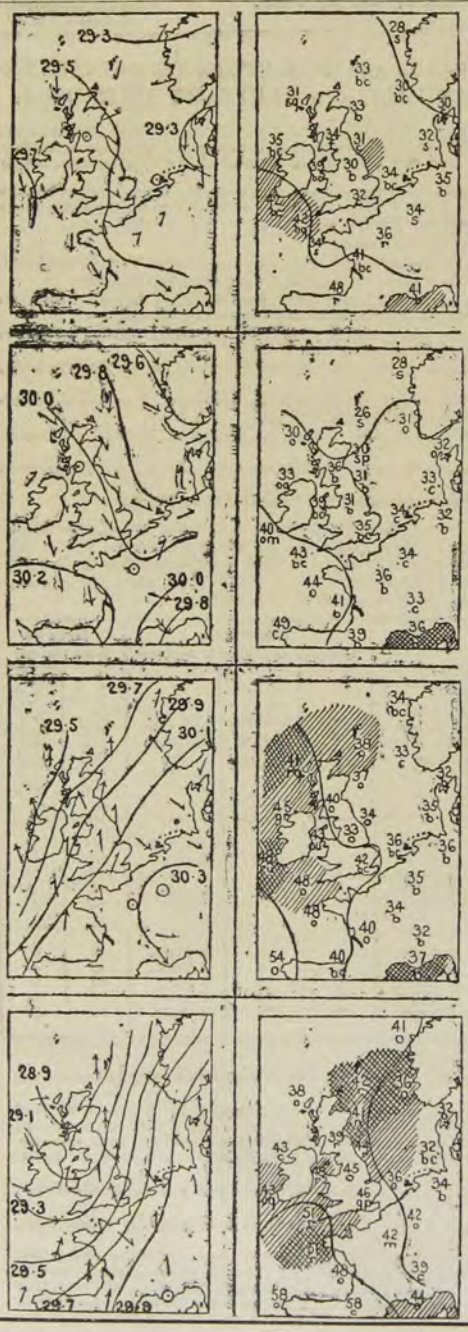
Depressions observed.—At the commencement of this period the barometer was highest to the westward of our Islands and lowest over Scandinavia, and the winds consequently northerly or north-westerly. During the 28th, however, the barometer fell quickly off our western and northern coasts, while over Scandinavia and Denmark a steady rise took place, and from that date until the end of the period a series of depressions passed across our Islands or skirted our extreme western and north-western coasts. The wind, which had shifted to between S. and S.W., blew with the force of a gale in nearly all parts of the Kingdom on the 29th or 30th.

R 6434. 100 & 470.—4/83. Wt. 32. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending April 2, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, March 27.

Weather changeable and unsettled, with snow showers in several places.

Temperature fallen at most stations; readings ranging from 42° at Valencia and Scilly to 30° at York and Oxford. Maxima not exceeding 35° in the N. of Scotland.

Wind northerly or north-westerly; light or moderate in force on all but our S.W. coasts. Subsequently increasing to strong breeze in Scotland.

Sea rough at Spurn Head, Valencia, and Scilly, moderate or smooth elsewhere.

Barometer rising generally. Readings highest off the W. of Ireland and lowest over the Baltic. Rise continuing all day.

Wednesday, March 28.

Weather unsettled in the N., with snow showers at Sumburgh Head and Aberdeen, but generally fine elsewhere. Becoming very cloudy in Ireland later.

Temperature risen at all but our eastern and northern stations; readings ranging from 43° at Scilly to 26° at Sumburgh Head.

Wind generally northerly or north-westerly, and light or moderate in force. Subsequently backing to S. in W. and N.

Sea moderate or smooth on all our coasts.

Barometer still rising generally. Highest pressures over the Bay of Biscay and lowest over the N. of Scandinavia. Fall taking place in W. and N.W. later, and depressions appearing off the W. of Ireland.

Thursday, March 29.

Weather fine at our south-eastern and most of the Continental stations, but dull on our western and northern coasts, with rain in several places. Rain becoming more general later.

Temperature risen; readings ranging from 48° at Valencia and Scilly to 33° at York. Maxima higher than of late.

Wind generally southerly; strong to a gale on our western nd northern coasts, but moderate in S.E. Gale becoming very severe in Scotland towards night.

Sea rough in W. and N.

Barometer rising on the eastern shores of the North Sea; falling elsewhere—quickly in the W. Deep depression moving in a northerly direction outside the Irish and Scotch coasts, and fall of barometer continuing all day.

Friday, March 30.

Weather fine in Sweden and Denmark, cloudy elsewhere, with rain in many places, and hail or sleet in the N.W. Considerable improvement taking place later.

Temperature fallen W. and N.W., risen elsewhere; readings ranging from 51° at Scilly to 38° at Stornoway.

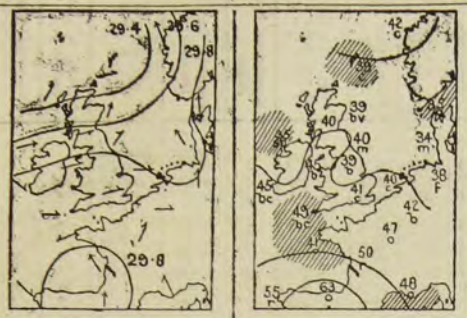
Wind fresh or strong north-westerly in Ireland and the W. of Scotland, but southerly gales blowing at all our more eastern stations. Gales subsiding later, and wind veering to W. generally.

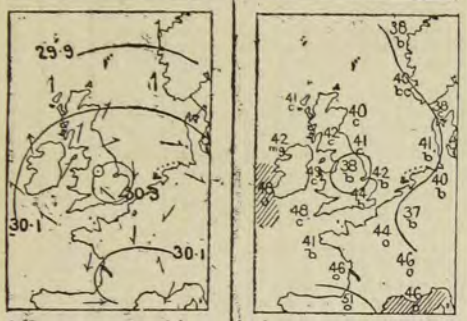
Sea very high off the N. and E. of Scotland, and rough on most other coasts.

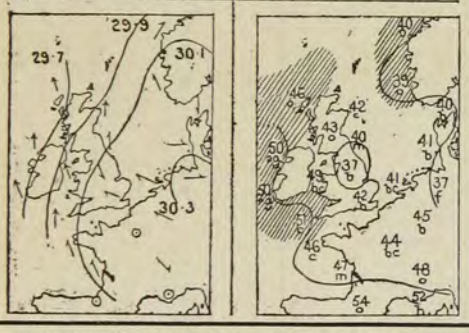
Barometer falling at all but the Irish stations. Deep depression lying off the N. of Scotland, and subsidiary disturbances over our western coasts. Mercury rising generally later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, March 31.

Weather fair generally, but snow showers reported from our extreme north-western stations.

Temperature fallen at nearly all stations, readings ranging from 49° at Scilly to 35° at Stornoway and Mullaghmore. Thermometer subsequently rising to 55° in London and 57° at Cambridge.

Wind easterly in the W. of France, but south-westerly or westerly elsewhere; fresh or strong in force on our northern coasts, but light or moderate in the S.

Sea rough at some of the western and northern stations.

Barometer rising generally. Readings highest over the Baltic, and lowest to the northward of Scotland, but relatively low over the S.W. of France. Rise continuing all day.

Sunday, April 1.

Weather dull in the extreme W. and N., fine elsewhere.

Temperature risen a few degrees in Ireland and Scotland, but fallen over the greater part of England; readings ranging from 48° at Valencia and Scilly to 31° at Loughborough. Highest maxima 58° at Cambridge and 56° in London.

Wind fresh southerly in the W., and light south-westerly in the N., but variable in the E. and S.

Sea rather rough at Valencia, slight or smooth elsewhere.

Barometer rising generally, and anticyclone lying over England and the southern portion of the North Sea. Fall taking place in England and Ireland later.

Monday, April 2.

Weather cloudy at the western and northern stations, with rain at Valencia, fine elsewhere. Rain falling in W. generally later.

Temperature risen generally: readings ranging from 51° at Scilly to 37° at York. Highest maxima 66° in London and 65° at Cambridge.

Wind southerly; strong in force over Ireland and Scotland, but light in the S.E. of England.

Sea rough in the extreme W. and N.

Barometer falling England and France, rising on the eastern shores of the North Sea. Anticyclone now over N. Germany, and lowest readings off our western coasts. Rise taking place over Ireland later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➔ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway	47	25	43·4	31·7	37·6	−4·8	6	2·02	+1·19	29	32
	Wick	50	22	43·1	30·1	36·6	−4·8	4	0·66	+0·30	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	36	50·6	40·3	45·5	−2·8	5	0·51	+0·05	*	*
	Jersey (Noirmont)	58	33	49·9	38·1	44·0	−2·6	4	0·14	−0·55	48	54

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	54	26	?44·4	?32·4	?38·4	− 4·0	3	0·21	−0·09	*	*
	Aberdeen	51	23	44·7	31·4	38·1	− 3·6	4	0·60	+0·17	40	45
	Leith	59	27	48·7	32·4	40·6	− 3·1	4	0·07	−0·21	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	26	44·9	32·9	38·9	− 3·7	3	0·35	?	*	*
	Shields	57	25	47·1	30·9	39·0	− 4·1	2	0·04	−0·31	*	*
	Durham	59	25	48·2	30·4	39·3	− 3·3	2	0·21	−0·19	47	53
	Scarborough ℳ	53	29	47·7	33·4	40·6	− 2·5	2	0·14	−0·21	*	*
	York	62	26	50·9	29·9	40·4	− 3·7	2	0·05	−0·31	49	55
	Spurn Head	49	30	44·3	33·3	38·8	− 4·8	2	0·08	?	*	*
3. ENGLAND, E.	Hillington ℳ	63	24	51·8	29·4	40·6	− 3·3	2	0·10	−0·25	49	55
	Yarmouth	52	29	44·4	33·1	38·8	− 5·6	1	0·02	−0·38	*	*
	Geldeston	59	26	50·1	30·2	40·2	− 4·7	3	0·09	−0·26	52	58
	Cambridge	65	32	54·0	27·3	40·7	− 4·4	2	0·05	−0·25	55	62
	Rothamsted	?61	24	50·6	29·0	39·8	− 5·1	3	0·31	+0·01	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	64	25	52·3	30·4	41·4	− 3·1	1	0·01	−0·34	*	*
	Loughborough	63	26	52·7	29·6	41·2	− 3·4	2	0·17	−0·23	*	*
	Leicester	62	26	52·8	30·8	41·8	− 2·6	2	0·11	−0·22	39	44
	Birmingham (Oscott)	62	27	51·6	30·5	41·1	− 3·0	1	0·09	−0·40	*	*
	Cheadle ℳ	59	24	49·2	29·4	39·3	− 3·8	3	0·14	?	*	*
	Churchstoke ℳ	60	23	49·9	28·9	39·9	− 4·4	4	0·19	?	42	47
	Hereford ℳ	61	25	52·4	30·6	41·5	− 3·8	3	0·21	−0·14	*	*
	Cirencester	61	22	51·0	28·9	40·0	− 4·8	3	0·43	−0·02	45	51
	Oxford	61	26	51·3	31·4	41·4	− 4·1	3	0·29	−0·06	43	48
5. ENGLAND, S.	London†	66	25	52·6	31·8	42·0	− 4·3	2	0·11	−0·24	32	36
	Marlborough ℳ	59	22	50·1	29·7	39·9	− 4·6	3	0·54	+0·09	45	51
	Strathfield Turgiss ℳ	63	21	53·1	30·3	41·7	− 3·7	2	0·27	−0·08	*	*
	Dover	54	29	46·4	34·1	40·3	− 5·9	3	0·15	−0·31	*	*
	Hastings (St. Leonard's)	56	28	49·4	35·7	42·6	− 3·2	3	0·23	−0·22	49	55
	Southampton	60	27	52·4	32·4	42·4	− 3·7	3	0·41	?	44	49
	Hurst Castle	53	28	49·6	35·0	42·3	− 4·4	2	0·26	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	50	30	46·9	35·9	41·4	− 1·7	7	4·62	?	*	*
	Glasgow	56	27	46·1	33·7	39·9	− 3·2	3	0·68	+0·18	37	42
	Ardrossan	51	30	46·1	35·4	40·8	− 2·3	5	1·04	+0·54	*	*
	Silloth (Cumberland)	60	25	48·9	32·6	40·8	− 3·8	3	0·33	−0·06	49	55
	Douglas (Isle of Man)	59	30	47·5	33·6	40·6	− 4·2	4	0·71	+0·26	48	54
7. ENGLAND, N.W.	Barrow-in-Furness	58	30	48·6	34·1	41·4	− 3·9	3	0·59	?	*	*
	Stonyhurst	58	25	47·7	29·3	38·5	− 5·6	4	0·31	−0·11	51	57
	Blackpool ℳ	60	25	48·0	31·9	40·0	− 5·8	4	0·69	+0·29	53	60
	Manchester	60	25	48·6	29·5	39·1	− 4·9	2	0·12	−0·36	*	*
	Liverpool Obsy (Bidston)	61	30	48·9	33·9	41·4	− 3·6	3	0·22	−0·08	*	*
	Llandudno ℳ	62	28	49·6	35·2	42·4	− 3·7	3	0·63	+0·23	23	26
	Holyhead	56	32	49·4	38·6	44·0	− 2·2	4	1·02	+0·57	*	*
8. ENGLAND, S.W.	Pembroke	51	32	47·1	37·4	42·3	− 5·1	6	0·74	+0·17	51	57
	Arlington (N. Devon)	58	29	50·0	32·9	41·5	− 3·9	5	0·29	?	*	*
	Cullompton ℳ	58	28	52·3	31·1	41·7	− 4·4	1	0·46	?	41	46
	Falmouth	52	35	48·8	39·7	44·3	− 2·8	4	0·54	−0·06	43	48
	Plymouth	57	32	52·1	35·7	43·9	− 3·5	3	0·45	−0·15	43	48
	Prawle Point	53	30	51·1	36·4	43·8	− 2·5	3	0·15	?	*	*
9. IRELAND, N.	Londonderry	59	26	52·4	33·5	43·0	− 1·4	6	1·53	+0·97	*	*
	Mullaghmore	52	30	47·9	34·3	41·1	− 4·2	6	1·50	?	*	*
	Markree Castle	51	25	48·6	31·2	39·9	− 4·7	5	0·24	−0·26	24	27
	Brookeborough	51	21	47·9	31·0	39·5	− 4·6	5	1·27	?	*	*
	Armagh	54	27	48·2	34·0	41·1	− 3·7	5	0·94	+0·54	36	40
	Donaghadee	52	30	47·7	33·7	40·7	− 4·7	3	0·59	?	*	*
10. IRELAND, S.	Dublin	58	30	50·1	36·1	43·1	− 2·7	3	0·31	−0·20	43	48
	Parsonstown	53	25	48·9	32·4	40·7	− 4·6	3	0·71	+0·20	31	35
	Roche's Point	53	29	49·7	37·0	43·4	− 3·3	5	1·75	+1·05	*	*
	Valencia	53	34	50·6	38·9	44·8	− 2·7	6	1·46	+0·56	24	27
	Foynes										*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 14.] WEEK ENDING MONDAY, APRIL 9, 1883. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	62	32	56	39	47	4 above.	2	3	1 less.	45	48
	2. ENGLAND, N.E.	65	29	55	35	45	1 above.	1	1	4 less.	45	49
	3. ENGLAND, E.	70	25	58	36	47	1 above.	0	—	4 less.	56	61
	4. MID. COUNTIES	67	26	61	36	49	3 above.	0	—	4 less.	53	58
	5. ENGLAND, S.	68	26	58	38	48	1 above.	0	—	4 less.	56	61
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	58	30	54	37	45	1 above.	2	2	3 less.	50	54
	7. ENGLAND, N.W.	60	29	55	37	46	0 (average).	1	1	4 less.	51	56
	8. ENGLAND, S.W.	64	29	54	41	48	0 (average).	1	less than ½	5 less.	54	59
	9. IRELAND, N.	66	28	56	37	47	1 above.	1	3	2 less.	60	65
	10. IRELAND, S.	64	30	56	37	47	1 below.	1	2	5 less.	60	65

General Remarks.

Weather has been very dry and fine in all parts of the Kingdom.

Temperature has been slightly below the mean in "Ireland, S." and about equal to it in "England, N.W." and "England, S.W.", but above it in all other districts, the excess in the "Midland Counties" and "Scotland, E." being as much as 3° or 4°. The maximum readings, which were generally recorded on the 4th or 5th, were rather high. In "England, E." the thermometer rose to 70°, in "England, S." to 68°, and elsewhere to between 58° and 67°. The minima were registered in most places on the last day of the period, when temperature fell to 25° in "England, E.", 26° in the "Midland Counties" and "England, S.", and in other districts to between 28° and 32°. The range of temperature was great over the whole Kingdom, and at Cambridge amounted to as much as 45°.

Rainfall has been less than the mean in all districts; over the greater part of England the weather was altogether rainless.

Bright sunshine shows a considerable increase in all places. The percentages of possible duration were unusually high, varying from 48 in "Scotland, E." to 61 in "England, S." and "England, E.", and 65 in Ireland.

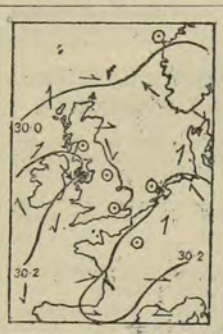
Depressions observed.—During the whole of this period pressure was high and uniform. The winds, which were very light or moderate in force, were rather variable in direction, but in the N. they were chiefly between S. and W., and in the S. between N. and E. A few depressions travelled in an easterly or north-easterly direction far to the northward or north-westward of our Islands, while some small subsidiary disturbances passed over our extreme northern districts.

R 6566. 100 & 470.—4/83. Wt. 32. E. & S.

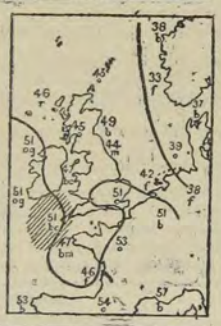
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending April 9, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.



CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, April 3.

Weather fine generally, but hazy in some places and foggy in the W. of France. Brilliant aurora seen in several parts of Ireland and Scotland at night.

Temperature fallen in the W., risen elsewhere; readings ranging from 55° at Jersey to 36° at Parsonstown. Thermometer subsequently rising to 67° in London and at Cambridge.

Wind south-westerly in the N. and north-westerly in the W., but light and variable in the E. and S. Southerly breezes setting in over Ireland and Scotland later.

Sea moderate or smooth.

Barometer falling slightly on eastern shores of North Sea, rising elsewhere. Areas of relatively high readings lying over France and our western coasts, with lowest pressures to northward of our Islands. Slight fall taking place in W. of Ireland later.

Wednesday, April 4.

Weather dull on our W. and N.W. coasts, with rain at Stornoway and Roche's Point; fine elsewhere. Rain falling subsequently at most western and northern stations.

Temperature risen generally; readings ranging from 52° at Nairn to 38° at York. Highest maxima 67° at Cambridge, and 65° at Loughborough and in London.

Wind moderate southerly in W. and south-westerly in N., but light variable airs in S. and E.

Sea rather rough at Scilly, moderate or smooth elsewhere.

Barometer rising at all but our western and northern stations. Highest pressures now over the W. of France, and lowest off our N.W. coasts. Mercury subsequently rising in N. but falling slightly in S.

Thursday, April 5.

Weather fine in the N. of Sweden and S.E. of England, cloudy or overcast elsewhere, with rain at some northern stations. Weather improving in W. and N. later.

Temperature fallen generally; readings ranging from 50° at Shields and Scilly to 39° at Nairn. Highest maxima 70° at Cambridge and 68° in London.

Wind light or moderate in force generally; southerly on eastern shores of North Sea and northerly in Ireland, but very variable over England and France. Northerly breezes subsequently extending to all parts of our Islands.

Sea rather rough at Scilly, moderate or smooth elsewhere.

Barometer falling in France, but rising slightly in our Islands and Scandinavia. Highest pressures now over Sweden and lowest to the northward of Scotland. Rise continuing in our Islands all day.

Friday, April 6.

Weather rainy in Denmark, but fine over the greater part of our Islands and France. Fine weather becoming general later.

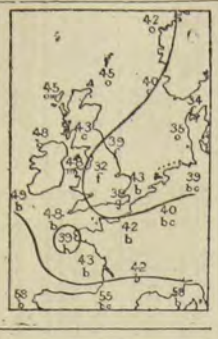
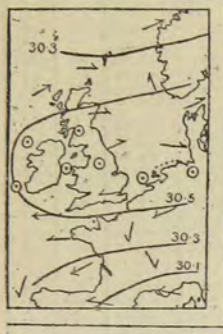
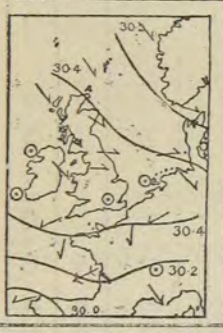
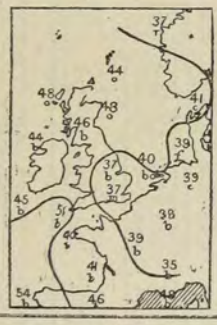
Temperature risen in N., fallen elsewhere; readings ranging from 50° at Scilly to 34° at Parsonstown. Maxima lower than of late.

Wind south-westerly or westerly in extreme N., but north-easterly or northerly elsewhere; light or moderate in force generally.

Sea rather rough at Scilly, slight or smooth elsewhere.

Barometer rising generally. Highest readings over the N. of Ireland, with areas of relatively low pressures off the N.W. of Norway and S.E. of France. Slight fall taking place in W. of Ireland later.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	**Weather** during the 24 hours succeeding the date of the Charts.
		**Saturday, April 7.** *Weather* dull at the extreme northern and a few of the central stations, fine and bright elsewhere. *Temperature* fallen over England and France; readings ranging from 49° at Valencia to 32° at York. *Wind* light or moderate southerly or south-westerly in N., and north-easterly or easterly in S., with calms at the intermediate stations. *Sea* moderate or smooth on all our coasts. *Barometer* falling in N., rising elsewhere. Large anticyclone covering England, the North Sea, and the southern portion of Scandinavia. Slight fall taking place generally later.
		**Sunday, April 8.** *Weather* dull in Scandinavia and some parts of central England, fine elsewhere. Sky clearing at the central stations later. *Temperature* risen in Scotland, fallen elsewhere; readings ranging from 49° at Aberdeen to 31° at Loughborough. *Wind* moderate westerly in the N. of Scotland, and fresh south-westerly in Scandinavia, but easterly at the southern stations. *Sea* rough at Scilly, moderate or smooth elsewhere. *Barometer* falling generally. Area of highest pressure now over the southern portion of the North Sea, with relatively low readings off the N.W. of Norway and S.E. of France.
		**Monday, April 9.** *Weather* cloudy in Scotland and Norway, fine elsewhere. Cloud extending to our N.E. coasts later. *Temperature* fallen in the extreme N., risen slightly in the S.; readings ranging from 51° at Scilly to 35° at Loughborough. *Wind* north-westerly in Scotland and Scandinavia, but north-easterly at the southern and French stations. Light or moderate in force generally. *Sea* moderate or smooth on all our coasts. *Barometer* falling slightly excepting in France. Highest pressures now over Ireland and lowest over the N. of Sweden. Rise of mercury taking place in N. later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
Scotland, N.	Sumburgh Head	51	37	49·4	40·1	44·8	+3·0	3	0·13	−0·27	*	*
	Stornoway	53	34	50·7	40·1	45·4	+2·2	2	0·07	−0·72	27	29
	Wick	54	37	52·4	39·7	46·1	+3·9	2	0·31	−0·09	*	*
Channel Islands	Scilly (St. Mary's)	56	42	52·7	44·6	48·7	−0·2	0	—	−0·46	*	*
	Jersey (Noirmont)	59	40	52·3	42·6	47·5	−0·2	0	—	−0·60	56	61

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	60	36	55·4	39·9	47·7	+ 4·4	2	0·48	+0·18	*	*
	Aberdeen	62	35	56·4	39·9	48·2	+ 5·5	2	0·13	−0·35	45	48
	Leith	61	32	57·0	36·0	46·5	+ 1·8	2	0·33	+0·03	*	*
2. ENGLAND, N.E.	Alnwick Castle	58	32	52·6	36·6	44·6	+ 1·1	2	*0·10	?	*	*
	Shields	56	32	53·7	35·4	44·6	+ 0·5	0	—	−0·39	*	*
	Durham	65	29	58·3	32·2	45·3	+ 1·6	2	0·04	−0·37	47	51
	Scarborough ℳ	64	34	55·7	38·3	47·0	+ 2·8	1	0·11	−0·28	*	*
	York	64	29	59·6	32·9	46·3	+ 1·0	1	0·03	−0·36	43	47
	Spurn Head	58	33	49·0	37·0	43·0	− 1·7	0	—	?	*	*
3. ENGLAND, E.	Hillington ℳ	68	28	60·3	35·1	47·7	+ 2·4	0	—	−0·35	52	56
	Yarmouth	51	32	47·9	37·9	42·9	− 3·2	0	—	−0·40	*	*
	Geldeston	66	25	58·4	35·1	46·8	+ 0·6	0	—	−0·35	57	62
	Cambridge	70	25	62·7	35·4	49·1	+ 2·6	0	—	−0·30	59	64
	Rothamsted	67	26	60·2	34·0	47·1	+ 0·8	0	—	−0·40	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	66	30	61·3	34·6	48·0	+ 2·1	0	—	−0·36	*	*
	Loughborough	65	30	62·7	36·3	49·5	+ 3·6	0	—	−0·39	*	*
	Leicester	67	30	62·9	36·8	49·9	+ 4·1	0	—	−0·31	40	44
	Birmingham (Oscott)	64	29	59·6	37·2	48·4	+ 3·0	0	—	−0·45	*	*
	Cheadle ℳ	63	31	58·2	39·1	48·7	+ 4·4	0	—	?	*	*
	Churchstoke ℳ	62	28	58·4	34·8	46·6	+ 1·0	1	0·02	?	51	55
	Hereford ℳ	67	28	61·5	35·9	48·7	+ 2·2	0	—	−0·35	*	*
	Cirencester	64	26	59·3	34·0	46·7	+ 0·8	0	—	−0·45	60	65
	Oxford	66	30	61·0	38·4	49·7	+ 3·0	0	—	−0·35	62	67
5. ENGLAND, S.	London†	68	29	61·0	37·1	49·1	+ 1·4	0	—	−0·35	41	45
	Marlborough ℳ	65	27	59·4	35·2	47·3	+ 1·7	0	—	−0·46	60	65
	Strathfield Turgiss ℳ	68	26	61·7	33·6	47·7	+ 1·2	0	—	−0·40	*	*
	Dover	55	38	50·7	40·7	45·7	− 1·8	0	—	−0·45	*	*
	Hastings (St. Leonard's)	62	36	56·3	41·4	48·9	+ 1·9	0	—	−0·44	64	70
	Southampton	65	32	60·4	37·4	48·9	+ 1·8	0	—	?	59	64
	Hurst Castle	60	32	54·6	37·4	46·0	− 1·5	0	—	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	57	34	53·3	38·7	46·0	+ 1·8	1	0·28	?	*	*
	Glasgow	58	35	54·5	37·7	46·1	+ 1·8	2	0·14	−0·36	44	47
	Ardrossan	56	35	51·9	38·1	45·0	+ 0·8	2	0·06	−0·34	*	*
	Silloth (Cumberland)	58	30	55·5	33·8	44·7	− 0·9	2	0·11	−0·27	50	54
	Douglas (Isle of Man)	57	31	53·3	36·1	44·7	− 1·0	2	0·21	−0·30	57	62
7. ENGLAND, N.W.	Barrow-in-Furness	57	36	53·7	38·0	45·9	− 0·5	2	0·15	?	*	*
	Stonyhurst	60	31	56·0	35·0	45·5	+ 0·2	1	0·01	−0·59	55	60
	Blackpool ℳ	54	29	51·8	33·4	42·6	− 3·9	2	0·05	−0·35	53	58
	Manchester	59	32	57·2	36·4	46·8	+ 1·8	0	—	−0·48	*	*
	Liverpool Obsy (Bidston)	58	36	54·3	40·4	47·4	+ 1·4	1	0·03	−0·27	*	*
	Llandudno ℳ	58	33	55·0	38·6	46·8	− 0·4	1	0·09	−0·31	?45	?49
	Holyhead										*	*
8. ENGLAND, S.W.	Pembroke	57	40	51·9	41·9	46·9	− 0·8	2	0·02	−0·49	53	58
	Arlington (N. Devon)	58	31	54·9	36·7	45·8	− 0·9	2	0·07	?	*	*
	Cullompton ℳ	64	29	59·7	37·9	48·8	+ 1·5	1	0·01	?	50	54
	Falmouth	55	40	51·5	43·2	47·4	− 0·5	0	—	−0·56	54	59
	Plymouth	59	36	56·0	42·5	49·3	+ 0·9	0	—	−0·54	58	63
	Prawle Point	56	39	52·4	41·7	47·1	− 0·1	0	—	?	*	*
9. IRELAND, N.	Londonderry	66	33	59·0	38·0	48·5	+ 3·1	1	0·45	−0·11	*	*
	Mullaghmore	57	39	55·0	42·3	48·7	+ 2·4	1	0·29	?	*	*
	Markree Castle	61	28	56·7	33·2	45·0	− 1·2	1	0·06	−0·34	57	62
	Brookeborough	64	30	57·4	34·7	46·1	+ 0·7	2	0·25	?	*	*
	Armagh	60	35	56·4	38·3	47·4	+ 1·6	1	0·35	−0·10	62	67
	Donaghadee	55	33	52·1	37·9	45·0	− 1·3	2	0·19	?	*	*
10. IRELAND, S.	Dublin	60	34	55·3	38·3	46·8	0·0	1	0·08	−0·52	57	62
	Parsonstown	64	30	59·4	33·3	46·4	0·0	1	0·15	−0·35	61	66
	Roche's Point	58	35	53·9	38·4	46·2	− 1·3	1	0·26	−0·44	*	*
	Valencia	60	34	56·0	38·0	47·0	− 1·2	2	0·38	−0·50	62	67
	Foynes										*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 15.] WEEK ENDING MONDAY, APRIL 16, 1883. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	61	35	50	41	48	3 above.	3	2	2 less.	33	34
	2. ENGLAND, N.E.	59	34	52	39	46	0 (average).	1	less than ½	3 less.	24	24
	3. ENGLAND, E.	61	26	54	36	45	3 below.	1	less than ½	4 less.	26	27
	4. MID. COUNTIES	65	30	55	38	47	0 (average).	1	less than ½	3 less.	24	25
	5. ENGLAND, S.	61	29	53	38	46	2 below.	1	less than ½	4 less.	29	30
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	59	35	52	41	47	1 above.	3	5	3 less.	29	30
	7. ENGLAND, N.W.	59	32	52	40	46	1 below.	2	1	3 less.	28	29
	8. ENGLAND, S.W.	61	32	54	41	47	1 below.	1	1	5 less.	39	41
	9. IRELAND, N.	62	27	53	39	46	1 below.	4	2	3 less.	28	29
	10. IRELAND, S.	63	30	55	40	47	1 below.	3	2	4 less.	40	42

General Remarks.

Weather, though dry and fine generally, has been less bright than during last week, and in the western and northern districts some slight showers have been experienced.

Temperature has been a little above the mean in Scotland, and about equal to it in "England, N.E." and the "Midland Counties", but in all other districts it has been slightly below. The maxima, which were registered on different days in various parts of the country, ranged from 65° in the "Midland Counties" to 59° in "England, N.E.", "Scotland, W.", and "England, N.W." The minima were recorded on the 10th or 11th, when the thermometer fell to 26° in "England, E.", 27° in "Ireland, N.", and to between 29° and 35° elsewhere.

Rainfall has been considerably less than the mean in all districts.

Bright sunshine has been less prevalent than during last week in all parts of the Kingdom, the percentages of possible duration ranging from 25° in "England, N.E." and 26° in the "Midland Counties", to 41° in "England, S.W.", and 42° in "Ireland, S."

Depressions observed.—During the early part of this week the barometer continued high and uniform over the whole of our Islands, while depressions moved in an easterly or north-easterly direction far to the northward of us. Towards the latter part of the period, however, pressure gave way decidedly over our Islands, some large depressions skirted the N. coast of Scotland, and moderate gradients for south-westerly to westerly breezes were established over the whole Kingdom. The wind, which was at first generally light from the northward or north-westward, consequently shifted to between S.W. and W., and in all the northern districts blew freshly or strongly.

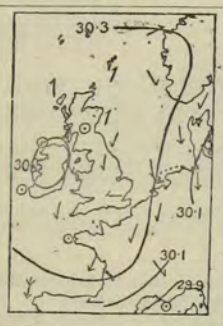
R 6749. 100 & 470.—4/83. Wt. 32. E. & S.

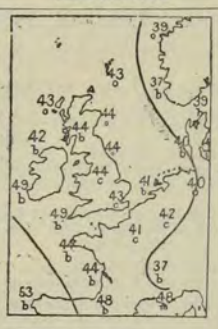
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending April 16, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Tuesday, April 10.

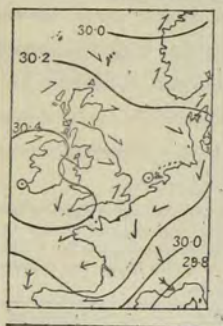
Weather dull on our N. and N.E. coasts, fine elsewhere. Slight rain falling in extreme N. later.

Temperature risen a little in the S.E. of England and S. of Ireland, fallen elsewhere; readings ranging from 49° at Valencia and Scilly to 37° at Parsonstown. Highest maxima 63° at Parsonstown and 62° at Valencia.

Wind light south-westerly in N., moderate northerly or north-easterly elsewhere.

Sea moderate or smooth on all our coasts.

Barometer rising a little at all but the N. German and Dutch stations. Anticyclone covering our Islands, with central portion over Ireland. Slight fall taking place generally later.



Wednesday, April 11.

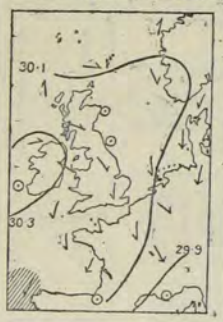
Weather fine at the French and our own southern stations, overcast elsewhere, with rain in the W. of Norway. Slight rain falling later in the N.

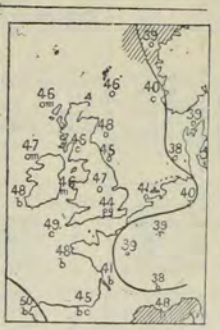
Temperature changed irregularly; readings ranging from 49° at Scilly to 38° in London. Highest maximum registered, 61° at Leith, Hurst Castle, and Cambridge.

Wind north-easterly at the southern and French stations, westerly or north-westerly in the N.; light or moderate in force generally.

Sea moderate or smooth.

Barometer falling at all but the French stations. Highest pressure still over our western coasts, with a depression off the N.W. of Norway. Depression travelling south-eastwards later, and barometer rising in N.





Thursday, April 12.

Weather dull at the north-eastern, eastern, and some of the central stations; fine in the S. and W.

Temperature risen a little generally; readings ranging from 50° at Roche's Point to 39° at Parsonstown.

Wind south-westerly or westerly in N., but northerly or north-easterly elsewhere; light or moderate in force on all our coasts.

Sea slight or smooth generally.

Barometer rising in the W. of Norway, falling elsewhere. Highest pressures over Ireland, with relatively low readings off the N. of Scandinavia and S.E. of France. Fall of mercury becoming decided in the N. later.

Friday, April 13.

Weather fine at most of the eastern and Continental stations; cloudy elsewhere, with rain in Ireland. Sky becoming cloudy in E. later, and rain falling in many parts of the country.

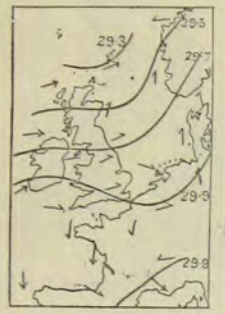
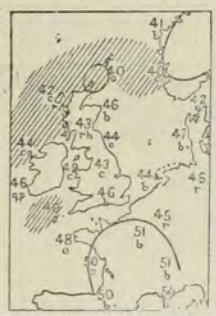
Temperature falling slightly in most places; readings ranging from 49° at Aberdeen and Scilly to 42° at York and Yarmouth.

Wind easterly in France, southerly or south-westerly elsewhere; light or moderate in force generally. Veering to N.W. or N. in the N. and W. later.

Sea moderate or smooth.

Barometer falling everywhere. Areas of high readings over France and the S. of Sweden, with low pressures to the northward of Scotland, but gradients moderate. Mercury subsequently rising in W., and new high pressure system forming off the W. of Ireland.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.
	
	

Weather during the 24 hours succeeding the date of the Charts.

Saturday, April 14.

Weather cloudy at the extreme northern and many of the southern stations, fine elsewhere. Cloud and rain setting in over Ireland later.

Temperature fallen slightly; readings ranging from 49° at Valencia and Scilly to 42° in London.

Wind south-westerly in N., north-westerly or northerly in S., and north-easterly in France; light or moderate in force generally. Wind freshening a little in N. later.

Sea rough Scilly, moderate or smooth elsewhere.

Barometer falling in Scandinavia, the N. of Scotland, and S. of France, rising elsewhere. Areas of relatively high pressure over the Baltic and S. of Ireland. Barometer falling decidedly at all western and northern stations later, and western high pressure system moving southward.

Sunday, April 15.

Weather fine in France and the S. of our Islands, cloudy elsewhere, with showers in the extreme W. and N. Some improvement taking place in W. and N. later.

Temperature risen generally; readings ranging from 50° at several of the southern stations to 43° in the Shetlands. Subsequently rising to 60° in London and at Cambridge.

Wind westerly in our Islands, southerly on the eastern shores of the North Sea, and northerly in France; fresh or strong in force on our W. and N. coasts.

Sea rough in the extreme W. and N.W.

Barometer rising at the French and our southern stations, falling elsewhere. Relatively high readings over France and the Baltic, and low pressures to the northward of Scotland, the intervening gradients being rather steep. Rise taking place in W. later.

Monday, April 16.

Weather fine in the E. and S., cloudy and showery in the W. Showers falling in N. later.

Temperature falling at all but extreme southern stations; readings ranging from 49° at Scilly and Prawle Point to 39° at Wick. Highest maxima 59° at Hurst Castle and Cambridge, and 58° in London.

Wind westerly in our Islands, south-westerly or southerly in Scandinavia, and north-westerly in France; fresh or strong in force in N.W. and N.

Sea rough W. and N.

Barometer falling Scandinavia, rising elsewhere. Large anti-cyclone lying over France and the Bay of Biscay, with area of low readings off our extreme northern coasts. Rise continuing all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
Scotland, N.	Sumburgh Head	48	35	46·7	39·7	43·2	−0·5	6	0·72	+0·30	*	*
	Stornoway	55	34	49·3	39·0	44·2	+0·2	5	0·39	−0·01	23	29
	Wick	59	35	51·4	40·0	45·7	+2·6	4	0·13	−0·27	*	*
Channel Islands	Scilly (St. Mary's)	56	45	52·9	45·9	49·4	−0·2	1	0·02	−0·44	*	*
	Jersey (Noirmont)	54	39	51·9	41·4	46·7	−2·1	0	—	−0·47	57	61

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	58	35	52·6	41·6	47·1	+ 2·8	5	0·28	−0·02	*	*
	Aberdeen	58	35	54·9	41·1	48·0	+ 4·0	2	0·04	−0·43	33	34
	Leith	61	37	54·0	40·9	47·5	+ 1·7	2	0·12	−0·22	*	*
2. ENGLAND, N.E.	Alnwick Castle	54	37	51·9	39·4	45·7	+ 0·8	1	0·05	?	*	*
	Shields	55	38	51·3	40·6	46·0	+ 0·8	1	0·01	−0·39	*	*
	Durham	59	34	55·6	36·6	46·1	+ 1·2	2	0·02	−0·42	24	25
	Scarborough ‡	53	37	49·4	40·1	44·8	− 0·7	3	0·07	−0·31	*	*
	York	58	36	55·1	38·0	46·6	− 0·2	1	0·07	−0·32	20	21
	Spurn Head	52	39	48·6	40·9	44·8	− 1·2	0	—	?	*	*
3. ENGLAND, E.	Hillington ‡	57	26	53·9	35·1	44·5	− 2·2	1	0·01	−0·34	26	27
	Yarmouth	57	36	48·9	38·4	43·7	− 3·6	0	—	−0·40	*	*
	Geldeston	59	28	53·5	35·3	44·4	− 3·3	0	—	−0·35	38	40
	Cambridge	61	27	56·1	36·9	46·5	− 1·5	1	0·02	−0·28	24	25
	Rothamsted	60	26	55·2	36·0	45·6	− 2·3	3	0·04	−0·36	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	65	34	57·7	37·9	47·8	+ 0·6	1	0·02	−0·34	*	*
	Loughborough	59	35	56·0	39·0	47·5	+ 0·2	3	0·05	−0·31	*	*
	Leicester	60	35	54·1	39·4	46·8	− 0·4	2	0·08	−0·22	16	17
	Birmingham (Oscott) ‡	56	32	53·2	38·1	45·7	+ 0·3	1	0·02	?	*	*
	Cheadle ‡	59	31	54·8	36·3	45·6	− 1·4	1	0·02	?	29	31
	Churchstoke ‡	63	31	57·4	38·8	48·1	+ 0·2	1	0·01	−0·34	*	*
	Hereford ‡	59	30	54·4	37·7	46·1	− 1·0	1	0·06	−0·40	30	32
	Cirencester	58	32	53·7	39·7	46·7	− 1·4	1	0·04	−0·32	21	22
5. ENGLAND, S.	London†	60	31	55·0	37·0	46·0	− 3·1	0	—	−0·35	17	18
	Marlborough ‡	59	29	53·5	36·9	45·2	− 1·5	2	0·14	−0·33	27	28
	Strathfield Turgiss ‡	61	35	57·6	37·0	47·3	− 0·4	1	0·02	−0·39	*	*
	Dover	54	36	49·0	39·9	44·5	− 4·3	0	—	−0·44	*	*
	Hastings (St. Leonard's)	55	35	51·9	38·7	45·3	− 2·8	0	—	−0·43	33	41
	Southampton	60	31	56·3	38·8	47·6	− 0·7	2	0·03	?	32	34
	Hurst Castle	61	33	54·7	38·1	46·4	− 2·3	2	0·05	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	55	36	50·4	40·9	45·7	+ 0·4	5	1·84	?	*	*
	Glasgow	59	37	52·7	40·3	46·5	+ 1·1	3	0·37	−0·16	25	26
	Ardrossan	55	39	51·3	41·4	46·4	+ 1·0	3	0·32	−0·19	*	*
	Silloth (Cumberland)	57	35	52·8	40·6	46·7	− 0·1	2	0·07	−0·33	29	30
	Douglas (Isle of Man)	58	38	54·3	40·9	47·6	+ 0·8	2	0·02	−0·47	34	35
7. ENGLAND, N.W.	Barrow-in-Furness	53	40	51·3	40·9	46·1	− 1·6	2	0·02	?	*	*
	Stonyhurst	55	36	52·5	37·6	45·1	− 1·4	2	0·15	−0·44	29	30
	Blackpool ‡	51	32	49·4	38·7	44·1	− 3·5	3	0·10	−0·24	27	28
	Manchester	59	35	53·7	38·2	46·0	0·0	2	0·02	−0·43	*	*
	Liverpool Obsy (Bidston)	56	40	52·4	42·4	47·4	+ 0·3	1	0·11	−0·17	*	*
	Llandudno ‡	54	39	52·3	41·4	46·9	− 1·4	3	0·06	−0·34	26	28
	Holyhead										*	*
8. ENGLAND, S.W.	Pembroke	56	41	51·4	43·0	47·2	− 1·3	2	0·02	−0·48	50	53
	Arlington (N. Devon)	57	32	52·7	37·1	44·9	− 2·7	1	0·02	?	*	*
	Cullompton ‡	61	34	56·3	38·6	47·5	− 0·9	2	0·07	?	29	31
	Falmouth	57	41	52·7	43·2	48·0	− 0·7	0	—	−0·55	44	46
	Plymouth	60	36	56·6	41·2	48·9	− 0·6	1	0·07	−0·44	32	34
	Prawle Point	59	37	55·4	38·9	47·7	− 1·5	1	0·15	?	*	*
9. IRELAND, N.	Londonderry	61	38	57·1	39·8	48·5	+ 1·9	5	0·37	−0·18	*	*
	Mullaghmore	53	38	51·1	42·1	46·6	− 0·8	5	0·28	?	*	*
	Markree Castle	59	27	53·1	37·4	45·3	− 2·1	4	0·04	−0·32	29	30
	Brookeborough	62	31	53·5	36·4	45·0	− 1·8	4	0·20	?	*	*
	Armagh	57	36	53·5	38·8	46·2	− 0·7	4	0·09	−0·37	27	28
	Donaghadee	53	36	51·7	39·0	45·4	− 1·8	4	0·16	?	*	*
10. IRELAND, S.	Dublin	57	35	54·2	39·7	47·0	− 0·9	2	0·03	−0·57	34	36
	Parsonstown	63	30	54·3	35·4	44·9	− 2·6	2	0·21	−0·25	34	36
	Roche's Point	60	40	55·3	42·6	49·0	+ 0·6	3	0·33	−0·32	*	*
	Valencia	62	37	56·0	41·0	48·5	− 0·5	5	0·45	−0·40	52	55
	Foynes	62	35	54·1	38·9	46·5	− 0·9	2	0·11	?	*	*

Stations marked ‡ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 16.] WEEK ENDING MONDAY, APRIL 23, 1883. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	59	31	50	39	44	1 below.	2	4	0 (average).	33	32
	2. ENGLAND, N.E.	64	33	50	40	45	2 below.	4	6	2 more.	22	22
	3. ENGLAND, E.	67	31	52	39	46	3 below.	5	8	4 more.	41	42
	4. MID. COUNTIES	66	29	53	38	45	3 below.	4	5	1 more.	28	29
	5. ENGLAND, S.	66	29	53	40	47	3 below.	5	6	2 more.	34	35
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	56	32	50	39	45	2 below.	2	3	3 less.	31	31
	7. ENGLAND, N.W.	60	32	51	39	45	3 below.	3	3	1 less.	33	33
	8. ENGLAND, S.W.	61	29	52	38	45	5 below.	3	4	1 less.	42	43
	9. IRELAND, N.	60	30	54	38	46	3 below.	2	3	2 less.	50	50
	10. IRELAND, S.	61	34	53	39	46	3 below.	2	5	1 less.	48	48

General Remarks.

Weather during this period has been very changeable, intervals of clear sky having alternated with showers of hail, snow, or cold rain.

Temperature has been below the mean in all districts, the deficit in "England, S.W." amounting to 5°, and in most other districts to 3°. The maxima, which were recorded in most places on the 18th, varied from 56° in "Scotland, W." to 67° in "England, E." The minima were generally registered either on the 17th, 22nd, or 23rd, and ranged from 29° in central, southern, and south-western England, to 34° in "Ireland, S."

Rainfall has been rather more than the mean in nearly all the "Wheat-producing", but slightly less in the "Grazing Districts", and about equal to the normal value in "Scotland, E."

Bright sunshine shows an increase at nearly all stations, the percentages of possible duration varying from 22 in "England, N.E." and 29 in the "Midland Counties", to 48 in "Ireland, S." and 50 in "Ireland, N."

Depressions observed.—On the first day of this period an extensive and rather deep depression was advancing towards our western coasts from the Atlantic, causing strong south-westerly to southerly winds or gales at all our stations. The disturbance, however, after impinging on our extreme western coasts, travelled away northwards, and during the following day the barometer in our Islands rose steadily, while over Scandinavia an area of high pressure began to be formed. As the week advanced, the south-westerly current consequently moderated in force, and by the morning of the 21st had given place to an easterly or north-easterly wind, which continued to prevail during the remainder of the period, blowing strongly in the E. and S.

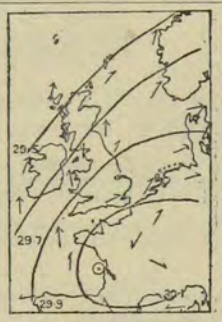
R 6864. 100 & 470.—4/83. Wt. 32. E. & S.

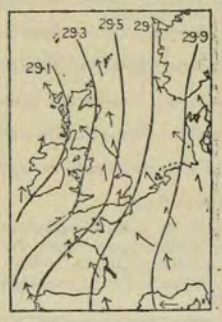
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending April 23, 1883.

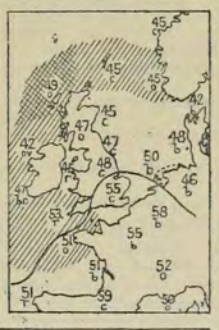
Synoptic Weather Charts.—8 a.m.

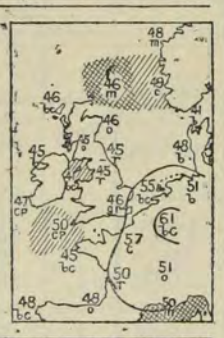
BAROMETER AND WIND.

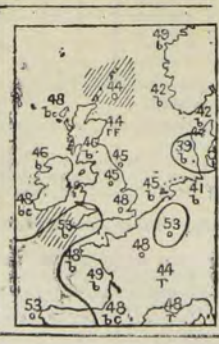
CLOUD, RAIN, SEA, AND TEMPERATURE.











Weather during the 24 hours succeeding the date of the Charts.

Tuesday, April 17.

Weather fair at the south-eastern and most of the Continental stations; cloudy elsewhere, with rain at Stornoway. Rain falling later in W. generally.

Temperature risen W. and N.; readings ranging from 51° at Valencia and in London to 42° at Aberdeen.

Wind easterly in the S.W. of France, south-westerly or southerly elsewhere; strong to a gale on our western and northern coasts.

Sea rough on our extreme western coasts, slight or smooth elsewhere.

Barometer falling quickly W. and N.W., rising S.E. Large anticyclone over France, and deep depression skirting the Irish and Scotch coasts in a northerly direction. Fall extending to all districts later.

Wednesday, April 18.

Weather fine in the E., cloudy in the W., with rain at Holyhead, Pembroke, and Scilly. Cloudy unsettled weather subsequently spreading to eastern stations, and thunder occurring in London.

Temperature fallen W. and S.W., risen elsewhere; readings ranging from 55° in London to 42° at Mullaghmore. Highest maxima 68° at Cambridge and 66° in London.

Wind southerly or south-easterly, and strong to a gale on many parts of our coasts. Veering to S.W. or S. later, and moderating.

Sea rough on our south-western, western, and extreme northern coasts.

Barometer beginning to rise in S.W., but continuing to fall in all other parts of our Islands. Area of high pressure appearing over Scandinavia, and depression of previous day passing away northwards. Rise extending to all western and northern stations later.

Thursday, April 19.

Weather fine at most of the western and several of the northern stations, but dull and rainy in the E. and S. Rain falling in E. of Scotland later.

Temperature risen slightly W., fallen elsewhere; readings ranging from 50° at Scilly and Dover to 43° at Barrow-in-Furness. Maxima over Central England about 15° lower than on previous day.

Wind strong easterly on the eastern shores of the North Sea, and moderate southerly on our western and northern coasts, but calms or light variable airs prevailing in S.

Sea high at Sumburgh Head and rather rough at Barrow-in-Furness and Scilly; moderate or smooth elsewhere.

Barometer falling a little in France and the S.E. of England, but rising at all the more northern stations. Large anticyclone shown over Sweden, and lowest pressures off our western coasts, but shallow depressions lying over the S.E. of England. Rise of barometer subsequently becoming general.

Friday, April 20.

Weather fine in W. and S., cloudy elsewhere, with steady rain at some of our eastern and south-eastern stations.

Temperature risen slightly W. and S., fallen E. and N.; readings ranging from 53° at Scilly to 41° at Nairn. Maxima higher than on previous day.

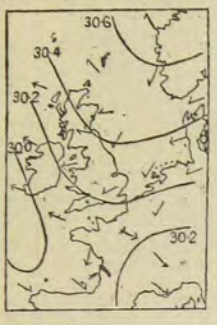
Wind strong easterly in Norway and Denmark, and south-easterly in the N. of Scotland, but moderate southerly in Ireland, and light north-westerly in the E. of England.

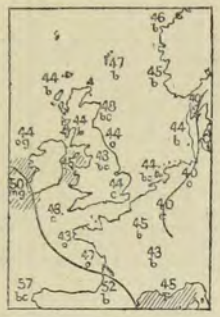
Sea rough off the N. of Scotland and also at Scilly.

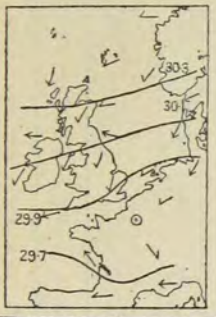
Barometer rising generally. Pressure still highest Sweden, but another area of comparatively high readings over the Bay of Biscay. Rise continuing all day.

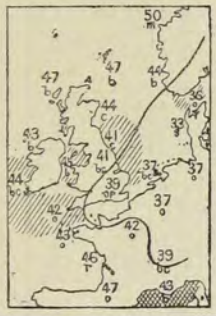
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Saturday, April 21.

Weather dull over central England, with some slight showers, fine in most other localities.

Temperature risen N., fallen slightly elsewhere; readings varying from 52° at Valencia and Scilly to 42° at Shields and 41° at Parsonstown. Maxima low generally.

Wind south-westerly in N., north-easterly or easterly elsewhere; fresh or strong in force at some south-eastern stations. Veering to S.E. in Ireland later.

Sea rather rough at Sumburgh Head and Yarmouth, moderate or smooth elsewhere.

Barometer rising generally—most in N. Highest pressures over N. of Scandinavia and lowest over the S.E. of France. Slight fall taking place later in Ireland, and on the eastern shores of the North Sea.

Sunday, April 22.

Weather dull in the extreme W. and S.W., generally fine elsewhere.

Temperature fallen in the W. and S., risen in the E.; readings ranging from 50° at Valencia to 41° at Nairn.

Wind south-easterly in W., north-easterly or easterly elsewhere; fresh or strong in force at many exposed stations.

Sea rather rough on our S.W. coasts, moderate or smooth elsewhere.

Barometer rising extreme N., falling on our other coasts. Pressure still highest over the N. of Scandinavia and lowest off the S.W. of Ireland. Slight rise taking place in extreme W. later.

Monday, April 23.

Weather fine in W. and N., cloudy elsewhere, with showers at Dover, Jersey, and in London. Showers of hail or sleet occurring in the E. and S. later.

Temperature risen in N.W., fallen elsewhere; readings ranging from 47° at Sumburgh Head and Stornoway to 37° at Loughborough and Yarmouth.

Wind easterly or north-easterly; strong to a gale on several parts of our eastern and western coasts, but moderate in the N.

Sea rough on the eastern, southern, and some parts of our western coasts.

Barometer falling generally—most in E. and S. Highest pressures over the N. of Sweden, and lowest over the S. of France, the intervening gradients being rather steep. Fall continuing all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⇒ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	53	34	48·6	38·7	43·7	+0·1	4	0·11	−0·33	*	*
	Stornoway	54	33	51·3	38·9	45·1	+0·2	1	0·05	−0·55	53	52
	Wick	54	35	48·9	38·3	43·6	−0·5	4	0·52	+0·12	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	40	52·0	43·0	47·5	−3·0	3	0·99	+0·52	*	*
	Jersey (Noirmont)	57	41	51·1	42·6	46·9	−3·2	3	0·47	+0·07	51	53

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	59	31	52·6	38·0	45·3	0·0	2	0·07	−0·26	*	*
	Aberdeen	50	36	48·0	39·0	43·5	− 1·4	2	0·88	+0·38	33	32
	Leith	56	36	49·6	39·1	44·4	− 2·4	3	0·26	−0·09	*	*
2. ENGLAND, N.E.	Alnwick Castle	56	35	47·3	39·3	43·3	− 2·5	5	0·69	?	*	*
	Shields	64	38	49·1	39·9	44·5	− 1·8	4	0·48	+0·08	*	*
	Durham	63	33	50·5	37·2	43·9	− 2·1	4	0·82	+0·37	18	18
	Scarborough ℳ	63	34	50·2	40·5	45·4	− 1·2	5	0·80	+0·41	*	*
	York	64	35	52·3	40·0	46·2	− 1·8	3	0·47	+0·07	26	26
	Spurn Head	58	36	49·6	41·1	45·4	− 1·8	4	0·54	?	*	*
3. ENGLAND, E.	Hillington ℳ	67	33	53·6	38·5	46·1	− 1·9	6	0·92	+0·57	41	41
	Yarmouth	52	34	47·3	40·7	44·0	− 4·4	4	1·00	+0·60	*	*
	Geldeston	66	35	53·6	40·0	46·8	− 2·1	5	0·66	+0·31	47	49
	Cambridge	68	31	54·4	38·4	46·4	− 2·8	5	0·74	+0·41	34	35
	Rothamsted	61	32	52·2	37·4	44·8	− 4·3	6	0·62	+0·22	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	66	33	54·3	38·6	46·5	− 2·0	4	0·57	+0·19	*	*
	Loughborough	63	35	52·9	39·7	46·3	− 2·4	5	0·55	+0·17	*	*
	Leicester	63	34	52·7	40·0	46·4	− 2·2	5	0·70	+0·40	22	22
	Birmingham (Oscott)	61	34	52·6	37·6	45·1	− 3·0	4	0·38	−0·16	*	*
	Cheadle ℳ	58	33	50·4	37·1	43·8	− 3·1	5	0·32	?	*	*
	Churchstoke ℳ	58	32	51·6	34·4	43·0	− 5·4	4	0·64	?	22	22
	Hereford ℳ	60	33	53·4	38·0	45·7	− 3·5	4	0·27	−0·08	*	*
	Cirencester	59	29	53·1	36·4	44·8	− 3·7	4	0·19	−0·27	35	36
	Oxford	59	35	53·3	40·0	46·7	− 2·7	3	0·40	+0·03	34	35
5. ENGLAND, S.	London†	66	38	53·3	42·6	48·0	− 2·4	5	0·84	+0·45	24	24
	Marlborough ℳ	59	31	52·2	36·5	44·4	− 3·5	4	0·34	−0·14	38	39
	Strathfield Turgiss ℳ	63	29	55·4	37·2	46·3	− 2·5	5	0·37	−0·09	*	*
	Dover	59	37	51·1	42·3	46·7	− 3·3	6	0·67	+0·26	*	*
	Hastings (St. Leonard's)	58	36	53·2	41·6	47·4	− 2·1	4	0·86	+0·44	38	39
	Southampton	63	32	54·4	39·1	46·8	− 2·7	3	0·51	?	37	38
	Hurst Castle	58	37	52·9	40·3	46·6	− 3·2	3	0·45	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	55	34	50·9	40·0	45·5	− 0·8	2	0·67	?	*	*
	Glasgow	53	35	49·3	39·6	44·5	− 1·9	2	0·19	−0·34	20	20
	Ardrossan	54	33	49·7	38·4	44·1	− 2·3	2	0·08	−0·42	*	*
	Silloth (Cumberland)	56	32	51·9	37·1	44·5	− 3·4	4	0·23	−0·17	35	35
	Douglas (Isle of Man)	56	32	49·9	38·0	44·0	− 3·6	2	0·41	−0·05	37	37
7. ENGLAND, N.W.	Barrow-in-Furness	54	37	50·7	40·4	45·6	− 3·0	1	0·25	?	*	*
	Stonyhurst	60	35	51·7	38·9	45·3	− 2·4	3	0·41	−0·15	29	29
	Blackpool ℳ	55	32	51·7	37·5	44·6	− 4·2	3	0·21	−0·11	35	35
	Manchester	59	34	51·1	38·5	44·8	− 2·6	3	0·39	−0·06	*	*
	Liverpool Obsy (Bidston)	56	36	53·6	40·3	47·0	− 1·4	2	0·14	−0·13	*	*
	Llandudno ℳ	55	33	50·1	37·6	43·9	− 5·6	2	0·42	+0·02		
	Holyhead	55	36	50·4	40·7	45·6	− 3·7	5	0·53	+0·17	*	*
8. ENGLAND, S.W.	Pembroke	53	36	50·3	40·1	45·2	− 4·3	3	0·71	+0·22	56	57
	Arlington (N. Devon)	54	31	50·7	36·1	43·4	− 5·5	2	0·62	?	*	*
	Cullompton ℳ	61	29	52·8	35·5	44·2	− 5·5	3	0·38	?	33	34
	Falmouth	56	40	51·0	41·5	46·3	− 3·4	4	0·53	−0·03	40	41
	Plymouth	57	35	53·3	37·6	45·5	− 5·1	1	0·22	−0·28	38	39
	Prawle Point	56	37	51·0	40·3	45·7	− 3·5	2	0·06	?	*	*
9. IRELAND, N.	Londonderry	60	34	57·6	37·8	47·7	− 0·1	3	0·25	−0·30	*	*
	Mullaghmore	57	33	53·0	40·6	46·8	− 1·8	2	0·45	?	*	*
	Markree Castle	59	30	54·3	35·4	44·9	− 3·7	1	0·08	−0·32	49	49
	Brookeborough	58	32	53·6	37·0	45·3	− 2·8	2	0·31	?	*	*
	Armagh	56	34	52·8	37·8	45·3	− 2·8	2	0·33	−0·13	51	51
	Donaghadee	51	31	49·6	37·7	43·7	− 4·4	2	0·25	?	*	*
10. IRELAND, S.	Dublin	55	39	51·8	41·0	46·4	− 2·6	2	0·17	−0·36	52	53
	Parsonstown	61	34	54·6	36·9	45·8	− 2·9	1	0·23	−0·24	45	45
	Roche's Point	56	38	54·1	40·9	47·5	− 2·1	2	0·35	−0·28	*	*
	Valencia	56	38	53·0	41·4	47·2	− 2·6	4	1·42	+0·69	46	47
	Foynes	58	35	53·1	36·1	44·6	− 3·7	2	0·31	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 17.] WEEK ENDING MONDAY, APRIL 30, 1883. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	60	30	51	39	45	2 below.	3	5	1 more.	37	35
	2. ENGLAND, N.E.	58	28	49	39	44	3 below.	4	6	2 more.	27	26
	3. ENGLAND, E.	61	28	53	40	47	3 below.	4	9	5 more.	22	22
	4. MID. COUNTIES	63	28	55	39	47	2 below.	4	10	6 more.	29	29
	5. ENGLAND, S.	63	30	56	42	49	2 below.	4	7	3 more.	34	34
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	58	28	50	40	45	3 below.	5	12	7 more.	20	20
	7. ENGLAND, N.W.	61	29	53	41	47	3 below.	4	12	7 more.	26	25
	8. ENGLAND, S.W.	60	29	54	41	48	3 below.	5	6	1 more.	53	53
	9. IRELAND, N.	60	27	53	39	46	3 below.	5	7	2 more.	29	29
	10. IRELAND, S.	60	33	53	40	47	3 below.	5	15	9 more.	36	35

General Remarks.

Weather during this week has been changeable and rather cold. Rain has fallen frequently in the W. and S., rarely in the N., but bright intervals have been frequent—especially in the S.W. of England.

Temperature has been below its mean value everywhere, the deficit being about 3° in most districts. Some of the nights have been very sharp, and in no case has the thermometer reached 64° even in the warmest part of the day. On Sunday, however, the air was soft and genial over "England, S.", and at times it was even "close."

Rainfall has differed but little from the average in "Scotland, E.", and "England, S.W.", but in all other districts it has been in excess—especially in "Ireland, S." and the north-western parts of Great Britain.

Bright sunshine.—The amount has been considerable in the S.W. of England, but over our eastern counties there has been a deficit—only 22 % of the possible duration having been recorded in "England, E."

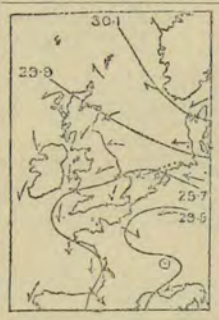
Depressions observed.—The principal depressions observed in our neighbourhood during the week were:—(1) A shallow depression which at 8 A.M. on the 24th lay over the E. of France; this gradually moved northwards, and finally dispersed over the North Sea on the 25th. (2.) A larger disturbance which appeared to the south-westward of our Islands on the 26th, and was accompanied by subsidiary disturbances on its eastern side. This gradually grew deeper till the 27th, when it apparently began to fill up; but the subsidiary depressions increased in intensity and finally spread (as an area of low pressure) over the southern parts of England.

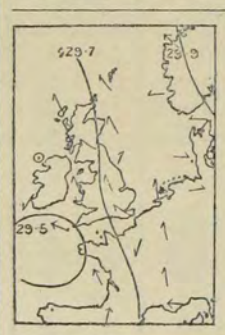
R 6965. 100 & 470.—5/83. Wt. 32. E. & S.

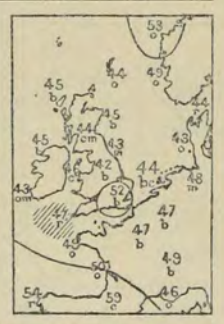
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending April 30, 1883.

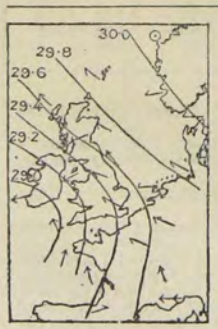
Synoptic Weather Charts.—8 a.m.

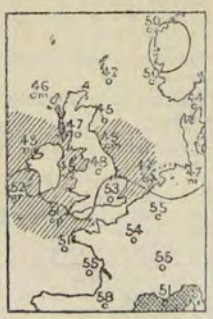
BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.











Weather during the 24 hours succeeding the date of the Charts.

Tuesday, April 24.

Weather fine in Ireland and the W. of France, cloudy and unsettled elsewhere, with showers of hail, sleet, or cold rain in many places.

Temperature allen generally; readings ranging from 47° at Valencia to 34° at Hurst Castle. Maxima again rather low.

Wind south-easterly in the N. of Scotland, and northerly in Ireland and the W. of France, but easterly or north-easterly in all other parts of western Europe. Fresh or strong in force in many places.

Sea rough on our E. coast and also at Holyhead.

Barometer falling most places. Anticyclone lying over the N. of Sweden, and a shallow area of low pressure over the E. of France. Latter subsequently moving northwards, and barometer rising at the French stations.

Wednesday, April 25.

Weather fine in Sweden and the W. of France, showery and unsettled elsewnere. Some improvement taking place in S.E. of England later.

Temperature risen slightly at the majority of stations; readings ranging from 47° at Scilly to 39° at Shields, Parsonstown, and Prawle Point.

Wind moderate easterly or north-easterly in the N. and N.W., and light north-westerly in the S., but variable at the intermediate stations. Backing to S.W. in S. later.

Sea rough at Aberdeen, moderate or smooth elsewhere.

Barometer rising at the French and our southern stations, falling elsewhere. Area of low pressure noticed on previous day now shown over southern portion of the North Sea, and shallow depression lying over the S. of Ireland. Former subsequently moving eastwards and barometer rising in E.

Thursday, April 26.

Weather dull and rainy in S.W., fine in most other localities. Rain extending to all western statiens later.

Temperature fallen slightly in W., risen several degrees in S.; readings ranging from 52° in London to 36° at Parsonstown. Maxima higher than on previous day.

Wind generally southerly or south-easterly; light or moderate in force in most places. Freshening considerably in S.W. later.

Sea rather rough at Scilly, moderate or smooth elsewhere.

Barometer falling W. and S.W., but rising E. Readings still highest Sweden, but shallow depression advancing towards our S.W. coasts. Disturbance subsequently growing deeper, and barometer falling at all but extreme northern stations.

Friday, April 27.

Weather fair in all the more eastern districts, but dull and rainy in the W. Cloud and rain extending to E. later.

Temperature risen most places; readings ranging from 53° in London to 42° at Sumburgh Head and Wick.

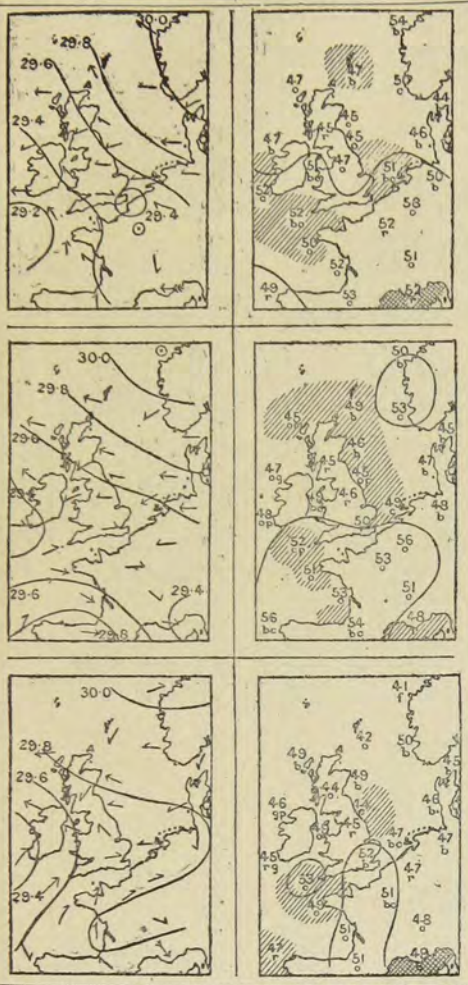
Wind south-easterly or easterly; moderate or fresh in force in N. and E., but strong in W. and S.W. Increasing to strong breeze in N. later.

Sea rough on all but the Scotch and S.E. coasts.

Barometer rising Norway and Scotland, falling elsewhere. New and deeper depression appearing in S.W. and gradients for south-easterly winds becoming steep. Mercury rising in S.W. later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, April 28.

Weather fine on our W. and S.W. coasts, and also in Sweden, cloudy or dull elsewhere, with rain in many places. Rain falling generally later.

Temperature fallen France, risen slightly elsewhere; readings ranging from 52° at several of the southern stations to 45° in the N.E.

Wind remaining easterly or south-easterly; strong in force on our extreme northern and south-western coasts. Subsequently falling light and variable in S.E.

Sea rough in the E. and S.W.

Barometer falling at most of the eastern stations, but rising in the W. and S. Depression still lying off our S.W. coasts, but growing shallower. Subsequent changes in pressure slight and very irregular.

Sunday, April 29.

Weather fine in Scandinavia, Denmark, and the E. of Scotland, cloudy elsewhere, with rain in many places. Thunder occurring at Parsonstown later.

Temperature changed irregularly; readings ranging from 52° at Scilly to 44° at Leith.

Wind continuing south-easterly or easterly at the more northern stations, but light and variable in the S., and strong westerly in the Bay of Biscay. Westerly wind extending to southern stations later.

Sea rough N. and E. as well as at Scilly.

Barometer falling eastern shores of North Sea, rising elsewhere. Depression in S.W. continuing to grow shallower, and area of comparatively high readings making up over France. Increase of pressure continuing over our Islands all day.

Monday, April 30.

Weather fine in N. and N.E. of Scotland, as well as on our southern coasts, cloudy and unsettled elsewhere, with rain in some places.

Temperature changed little and irregularly; readings ranging from 54° at Dover to 42° in the Shetlands. Highest maximum 62° at Loughborough and Cambridge.

Wind easterly or south-easterly in N., but south-westerly in S.; moderate or fresh in force generally.

Sea rough on our N.E. and S.W. coasts.

Barometer falling Scandinavia, rising elsewhere. Depression of previous few days now shown off S.W. of Ireland. Brisk fall taking place over France later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇉ = a heavy gale; ⇒ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	54	37	48·6	39·1	43·9	−0·5	2	0·33	−0·09	•	•
	Stornoway	59	38	52·9	40·9	46·9	+1·2	3	0·12	−0·47	43	41
	Wick	54	32	50·0	39·1	44·6	−0·3	2	0·28	−0·12	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	56	37	52·6	41·6	47·1	−4·1	6	0·58	+0·18	•	•
	Jersey (Noirmont)	59	33	53·7	41·3	47·5	−3·6	3	0·94	+0·54	46	46

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	60	30	53·4	38·1	45·8	− 0·5	3	0·24	−0·11	*	*
	Aberdeen	54	35	48·6	39·3	44·0	− 1·9	2	0·67	+0·19	37	35
	Leith	57	33	50·0	39·0	44·5	− 3·3	5	0·58	+0·23	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	31	47·6	38·9	43·3	− 3·5	4	0·49	?	*	*
	Shields	51	35	48·0	39·3	43·7	− 3·9	3	0·65	+0·25	*	*
	Durham	58	28	50·6	36·4	43·5	− 3·6	4	0·71	+0·29	26	25
	Scarborough ⚓	53	35	48·1	40·9	44·5	− 3·1	3	0·12	−0·28	*	*
	York	59	32	52·6	39·4	46·0	− 3·1	5	1·06	+0·66	27	26
	Spurn Head	49	35	47·6	42·1	44·9	− 3·3	4	0·32	?	*	*
3. ENGLAND, E.	Hillington ⚓	?	?	?	?	?	?	4	0·66	+0·29	18	18
	Yarmouth	50	35	47·6	41·4	44·5	− 5·0	5	0·91	+0·51	*	*
	Geldeston	60	31	52·9	41·2	47·1	− 2·8	4	0·68	+0·28	23	23
	Cambridge	61	28	56·1	39·7	47·9	− 2·4	4	1·57	+1·22	26	26
	Rothamsted	61	29	54·7	39·1	46·9	− 3·1	5	0·81	+0·28	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	61	31	54·4	39·7	47·1	− 2·5	4	1·64	+1·26	*	*
	Loughborough	62	32	55·0	40·7	47·9	− 1·9	3	1·44	+1·04	*	*
	Leicester	63	32	55·5	39·5	47·5	− 2·2	5	1·37	+1·07	28	28
	Birmingham (Oscott)	59	30	54·6	39·0	46·8	− 2·4	3	0·72	+0·14	*	*
	Cheadle ⚓	59	30	53·4	37·9	45·7	− 2·4	3	1·60	?	*	*
	Churchstoke ⚓	59	28	54·8	36·3	45·6	− 3·6	4	1·00	?	24	24
	Hereford ⚓	63	30	57·9	39·3	48·6	− 1·6	4	0·53	+0·15	*	*
	Cirencester	61	28	56·7	37·4	47·1	− 2·4	4	0·39	−0·06		
	Oxford	61	34	56·3	42·6	49·5	− 0·8	4	0·56	+0·17	36	36
5. ENGLAND, S.	London†	61	33	57·7	42·0	49·9	− 1·6	3	0·71	+0·31	23	23
	Marlborough ⚓	61	32	55·5	39·7	47·6	− 1·2	5	0·45	−0·03	31	31
	Strathfield Turgiss ⚓	63	30	57·9	39·9	48·9	− 1·2	4	0·62	+0·17	*	*
	Dover	58	35	53·6	42·6	48·1	− 2·8	6	1·04	+0·64	*	*
	Hastings (St. Leonard's)	59	33	54·8	43·6	49·2	− 1·1	4	0·96	+0·56	36	36
	Southampton	62	31	57·5	41·3	49·4	− 1·1	4	0·51	?	44	44
	Hurst Castle	59	32	53·9	42·3	48·1	− 2·6	3	0·56	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	57	30	52·1	40·1	46·1	− 1·1	5	1·21	?	*	*
	Glasgow	54	35	48·6	39·4	44·0	− 3·2	5	1·34	+0·79	10	10
	Ardrossan	58	34	49·1	39·3	44·2	− 3·3	7	1·24	+0·74	*	*
	Silloth (Cumberland)	58	28	51·6	38·0	44·8	− 4·0	4	1·34	+0·94	19	19
	Douglas (Isle of Man)	52	31	50·0	41·1	45·6	− 2·5	5	0·86	+0·44	32	31
7. ENGLAND, N.W.	Barrow-in-Furness	57	33	52·7	41·0	46·9	− 2·5	4	1·69	?	*	*
	Stonyhurst	59	29	52·0	38·0	45·0	− 3·8	4	1·45	+0·89	22	21
	Blackpool ⚓	61	31	53·4	40·0	46·7	− 3·1	3	1·07	+0·74	32	31
	Manchester	61	29	52·7	38·7	45·7	− 3·1	3	1·51	+1·07	*	*
	Liverpool Obs' (Bidston)	61	33	54·0	41·1	47·6	− 2·1	4	0·57	+0·30	*	*
	Llandudno ⚓	59	35	53·1	41·5	47·3	− 3·1	3	0·27	−0·13	24	24
	Holyhead	58	38	53·1	43·3	48·3	− 1·8	7	0·81	+0·46	*	*
8. ENGLAND, S.W.	Pembroke	56	34	51·7	42·4	47·1	− 3·1	5	0·60	+0·11	58	57
	Arlington (N. Devon)	58	29	55·3	38·6	47·0	− 2·8	5	0·89	?	*	*
	Cullompton ⚓	60	29	56·0	37·3	46·7	− 4·1	3	0·88	?	47	47
	Falmouth	56	35	52·3	43·8	48·1	− 2·4	4	0·57	+0·01	52	52
	Plymouth	59	35	55·7	42·6	49·2	− 2·3	6	0·43	−0·06	57	57
	Prawle Point	56	33	52·7	40·9	46·8	− 3·2	5	0·53	?	*	*
9. IRELAND, N.	Londonderry	59	32	56·4	38·9	47·7	− 1·0	3	0·06	−0·45	*	*
	Mullaghmore	56	39	53·7	42·7	48·2	− 1·3	5	0·49	?	*	*
	Markree Castle	60	27	55·1	36·1	45·6	− 3·9	5	0·16	−0·26	39	38
	Brookeborough	59	30	52·6	37·9	45·3	− 3·7	3	0·57	?	*	*
	Armagh	53	31	50·8	39·4	45·1	− 3·9	6	1·03	+0·61	19	19
	Donaghadee	52	35	48·9	40·7	44·8	− 4·0	5	1·21	?	*	*
10. IRELAND, S.	Dublin	57	35	51·8	41·0	46·4	− 3·4	4	1·93	+1·39	39	38
	Parsonstown	60	33	53·7	37·7	45·7	− 4·0	5	0·88	+0·41	32	31
	Roche's Point	56	36	53·7	42·3	48·0	− 2·5	6	1·93	+1·31	*	*
	Valencia	59	36	53·7	41·0	47·4	− 3·1	6	1·30	+0·54	36	36
	Foynes									?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 18.] WEEK ENDING MONDAY, MAY 7, 1883. [*Price 2d.*
[*Annual subscription, post paid*, 12*s*. 6*d*.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	54	27	40	33	44	4 below.	4	3	1 less.	10	9
	2. ENGLAND, N.E.	58	30	47	36	42	6 below.	5	5	0 (average).	51	48
	3. ENGLAND, E.	63	28	53	38	45	5 below.	4	3	1 less.	46	44
	4. MID. COUNTIES	61	27	52	37	44	6 below.	4	5	1 more.	26	25
	5. ENGLAND, S.	67	29	55	40	47	4 below.	3	3	2 less.	41	39
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	59	30	52	37	46	3 below.	3	2	3 less.	52	49
	7. ENGLAND, N.W.	64	30	52	38	45	5 below.	2	4	0 (average).	54	50
	8. ENGLAND, S.W.	61	33	52	39	45	6 below.	4	6	1 more.	38	38
	9. IRELAND, N.	63	32	53	40	46	3 below.	3	2	2 less.	35	33
	10. IRELAND, S.	59	30	54	40	47	4 below.	2	3	3 less.	55	53

General Remarks.

Weather has been cold and somewhat changeable, and the amount of cloud very variable; sharp frosts have occurred on the ground on several occasions. A considerable quantity of snow fell in Central England on the morning of the 7th.

Temperature has been below the "mean" everywhere, the deficit varying from 4° to 6° over England. On some occasions the nights have been very sharp, and as a rule the days have been cool. On Sunday the 6th, however, temperature rose in a singular manner over our south-eastern counties, so that the total range of temperature in those regions amounted to as much as 38° in the shade.

Rainfall has varied locally. In most places it has been less than the average, but in Wales and the central parts of England the fall has been slightly in excess.

Bright sunshine has varied in duration from only 9 °/₀ of the possible amount in the E. of Scotland, and 26 °/₀ over our Midland Counties, to about 45 °/₀ on our eastern coasts, and to above 50 °/₀ in the N.W. of England and S. of Ireland.

Depressions observed.—Shallow depressions were observed over France during the greater part of the week, the subsidiaries of which occasionally affected over southern counties. Over the British Islands, however, the conditions were mainly anticyclonic, the winds north-easterly, and the air dry.

R 7081. 100 & 470.—5/83. Wt. 32. E. & S.

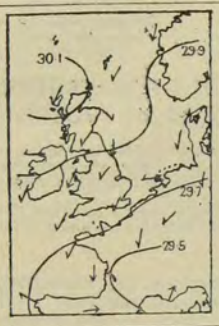
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending May 7, 1883.

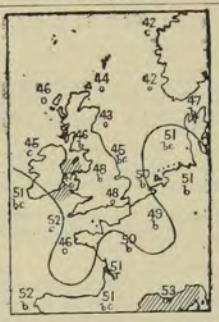
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.





Tuesday, May 1.

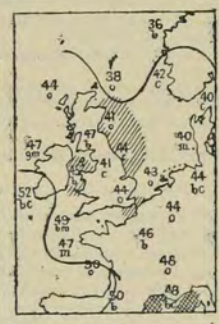
Weather dull in the N. of Scotland, and rainy in the W. of France; generally fine elsewhere.

Temperature fallen excepting in S.W.; readings ranging from 52° at Scilly to 43° at Aberdeen and Leith.

Wind generally north-easterly or easterly, and moderate or fresh in force. Blowing strongly, however, at the mouth of the Tyne.

Sea rather rough at Holyhead and Valencia, moderate or slight elsewhere.

Barometer rising over our Islands, but falling at most of the continental stations. Readings highest over the N. of Scotland, and lowest in central France, with moderate intervening gradients. Rise taking place in W. of France later.



Wednesday, May 2.

Weather cloudy at the northern, eastern, and central stations, but fine in the S.W. Snow reported from Sweden.

Temperature fallen at all but the Irish stations; readings rangings from 52° at Scilly to 38° in the Shetlands. Maxima below 50° in the N. and E. generally.

Wind north-easterly or northerly; moderate in force in W., but strong on many parts of our E. coasts.

Sea rough in the N.E. and also at Scilly and Prawle Point; moderate or smooth elsewhere.

Barometer falling on the eastern shores of the North Sea, and also in the N. of Scotland, rising elsewhere. Readings highest off our N.W. coasts, and well-defined depression shown over the Baltic. Disturbance moving in a north-westerly direction later, and barometer falling at all our more northern stations.

Thursday, May 3.

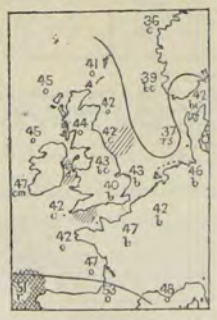
Weather cloudy and unsettled, with showers of snow and hail at Aberdeen and of cold rain in many other places. Snow extending to N.E. of England later.

Temperature changed little and irregularly; readings ranging from 49° at Valencia to 38° at Shields. Maxima again below 50° in the N. and E., and thermometer at Shields and Yarmouth not exceeding 45°.

Wind chiefly northerly; fresh or strong in force in the N. and E., moderate in the W.

Sea rather rough in the N.E., moderate or smooth elsewhere.

Barometer rising in France, Denmark, and the S. of Scandinavia, falling in our Islands. Highest pressures now lying to the westward of Ireland and Scotland, and lowest over the Gulf of Bothnia, but shallow local depressions found over various parts of Western Europe.



Friday, May 4.

Weather dull on our N. and N.W. coasts, fair elsewhere. Showers of sleet or cold rain subsequently falling in many parts of the country.

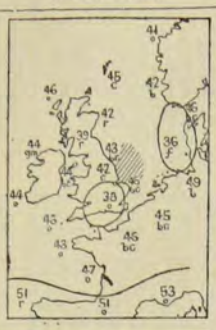
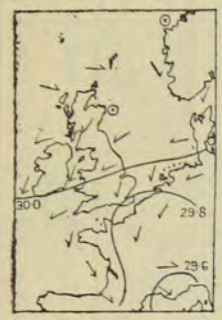
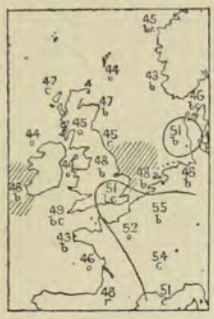
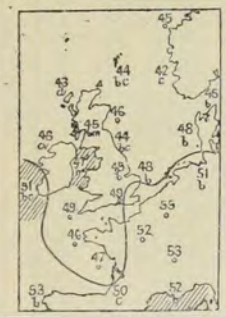
Temperature fallen, except N.; readings ranging from 47° at Valencia to 38° at Oxford. Maximum below 50° in most places.

Wind north-easterly or northerly; strong in the western part of the Channel, light or moderate elsewhere.

Sea rough at Shields, Holyhead, and Prawle Point.

Barometer rising at all but the French stations. Highest pressures off the W. of Scotland, with areas of low readings over Sweden and the S. of France.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	**Weather** during the 24 hours succeeding the date of the Charts.
		**Saturday, May 5.** *Weather* fine in the S.W., S., and S.E., dull elsewhere, with rain in many places, and snow at Loughborough. *Temperature* changed irregularly; readings ranging from 46° at Stornoway and Yarmouth to 36° at Loughborough. Maxima a little higher than during previous few days. *Wind* generally north-easterly; light in N., but strong in the W. of France. *Sea* rather rough on the E. coast of England, moderate or slight elsewhere. *Barometer* rising at all but a few of the southern stations and distribution of pressure scarcely altered. Subsequent movements of mercury slight and very irregular.
		**Sunday, May 6.** *Weather* fine at many of the eastern and western stations, but dull in N. and S. Fair weather becoming general over our Islands later. *Temperature* risen generally—quickly in S.; readings ranging from 54° at Dover to 44° on our N.W. coasts. Maxima much higher than of late—thermometer in London rising to 67°. *Wind* light, westerly in the N. of Scotland, but generally easterly or north-easterly elsewhere. *Sea* rather rough at Valencia and off the E. of England, moderate or smooth elsewhere. *Barometer* rising generally. Area of relatively high pressure lying over our northern districts, with low readings over central and south-eastern France. Slight fall taking place at several stations later, and distribution of pressure becoming less regular.
		**Monday, May 7.** *Weather* dull in the N. of Scotland and S. of England, with rain at Hurst Castle, but fine on our eastern and western coasts. Rain falling generally later, and thunder occurring at Cambridge. *Temperature* changed little; readings ranging from 53° at Roche's Point and Cambridge to 43° at Stornoway. Maxima much lower than on previous day. *Wind* moderate or fresh from N. and N.E. on our western and northern coasts, but light and variable in the S. *Sea* rather rough at Holyhead and Valencia, moderate or slight elsewhere. *Barometer* falling generally. Areas of high readings lying over Sweden, Denmark, and our N.W. coasts, but well defined depression appearing at the mouth of the Channel, and shallow local disturbance off the S.E. of England. Mercury continuing to fall all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	50	32	46·3	36·9	41·6	−3·2	5	0·29	−0·09	*	*
	Stornoway	52	33	48·1	37·6	42·9	−3·1	6	0·20	−0·36	21	20
	Wick	51	35	47·7	38·7	43·2	−2·1	5	0·23	−0·10	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	38	50·4	43·0	46·7	−4·9	4	0·51	+0·15	*	*
	Jersey (Noirmont)	54	38	50·4	41·9	46·2	−5·4	2	0·44	+0·04	49	47

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	50	37	48·1	40·0	44·1	− 2·7	4	0·31	−0·05	*	*
	Aberdeen	54	32	48·4	37·1	42·8	− 3·5	6	0·39	−0·07	10	9
	Leith	54	27	50·6	36·4	43·5	− 4·7	1	0·11	−0·26	*	*
2. ENGLAND, N.E.	Alnwick Castle	48	30	44·4	33·9	39·2	− 8·0	5	0·95	?	*	*
	Shields	47	32	46·0	35·9	41·0	− 6·6	3	0·57	+0·18	*	*
	Durham	51	32	47·1	34·2	40·7	− 6·8	5	0·71	+0·27	52	49
	Scarborough ℳ	50	36	46·8	39·3	43·1	− 5·0	6	0·16	−0·24	*	*
	York	58	32	52·3	35·7	44·0	− 5·6	3	0·17	−0·23	50	47
	Spurn Head	49	35	47·1	39·1	43·1	− 5·5	5	0·37	?	*	*
3. ENGLAND, E.	Hillington ℳ	59	31	52·8	36·5	44·7	− 4·7	5	0·51	+0·13	50	48
	Yarmouth	55	34	48·9	40·1	44·5	− 5·5	3	0·35	−0·06	*	*
	Geldeston	58	31	51·5	38·2	44·9	− 5·4	3	0·33	+0·03	49	47
	Cambridge	61	28	55·4	37·6	46·5	− 4·3	4	0·06	−0·31	38	36
	Rothamsted	63	29	53·7	36·7	45·2	− 5·2	4	0·14	−0·30	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	60	34	52·6	37·0	44·8	− 5·2	5	0·49	+0·12	*	*
	Loughborough	61	31	52·3	36·4	44·4	− 5·9	4	0·84	+0·43	*	*
	Leicester	60	32	51·2	37·1	44·2	− 6·0	3	0·88	+0·54	27	26
	Birmingham (Oscott)	59	29	50·3	35·8	43·1	− 6·6	5	0·40	−0·08	*	*
	Cheadle ℳ	57	30	51·0	35·7	43·4	− 5·2	4	0·10	?	*	*
	Churchstoke ℳ	58	27	49·8	35·4	42·6	− 7·0	3	0·33	?	23	22
	Hereford ℳ	60	30	52·8	37·1	45·0	− 5·7	4	0·48	+0·08	*	*
	Cirencester	60	31	52·9	35·6	44·3	− 5·8	4	0·49	+0·03	28	27
	Oxford	61	30	53·6	38·0	45·9	− 4·9	4	0·20	−0·19	27	26
5. ENGLAND, S.	London†	67	33	56·0	39·0	47·5	− 4·4	3	0·14	−0·26	33	32
	Marlborough ℳ	61	29	53·3	37·0	45·2	− 4·0	3	0·29	−0·19	33	32
	Strathfield Turgiss ℳ										*	*
	Dover	58	36	51·9	41·9	46·9	− 4·4	3	0·18	−0·24	*	*
	Hastings (St. Leonard's)	65	34	55·1	40·8	48·0	− 2·7	3	0·40	−0·01	49	47
	Southampton	66	31	56·3	39·8	48·1	− 2·8	4	0·47	?	48	46
	Hurst Castle	59	32	54·1	39·9	47·0	− 4·1	3	0·39	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	54	34	51·1	38·8	45·0	− 2·6	3	0·19	?	*	*
	Glasgow	58	34	51·6	38·9	45·3	− 2·3	2	0·09	−0·46	32	30
	Ardrossan	57	34	52·3	37·7	45·0	− 2·7	4	0·08	−0·42	*	*
	Silloth (Cumberland)	59	30	52·8	35·4	44·1	− 5·1	1	0·06	−0·34	64	60
	Douglas (Isle of Man)	59	33	52·8	37·5	45·2	− 3·2	3	0·37	−0·04	61	57
7. ENGLAND, N.W.	Barrow-in-Furness	64	34	56·4	38·3	47·4	− 2·5	2	0·40	?	*	*
	Stonyhurst	59	31	52·1	35·0	43·6	− 5·7	1	0·22	−0·31	57	54
	Blackpool ℳ	62	31	54·9	35·1	45·0	− 4·2	1	0·58	+0·22	55	52
	Manchester	59	32	52·0	36·0	44·0	− 5·4	1	0·24	−0·19	*	*
	Liverpool Obsy (Bidston)	60	30	53·3	38·0	45·7	− 4·3	2	0·21	−0·09	*	*
	Llandudno ℳ	54	39	49·3	40·7	45·0	− 5·8	1	0·29	−0·09	50	48
	Holyhead	51	38	48·0	41·4	44·7	− 6·0	3	0·82	+0·48	*	*
8. ENGLAND, S.W.	Pembroke	58	36	51·3	39·4	45·4	− 5·1	3	0·54	+0·06	45	43
	Arlington (N. Devon)	58	33	50·4	35·9	43·2	− 7·0	5	0·29	?	*	*
	Cullompton ℳ	61	34	53·2	37·2	45·2	− 6·0	5	0·29	?		
	Falmouth	55	37	51·0	41·2	46·1	− 4·8	3	0·52	−0·04	41	40
	Plymouth	59	35	54·1	39·7	46·9	− 5·0	3	0·65	+0·17	32	31
	Prawle Point	59	34	53·9	38·0	45·5	− 4·8	2	1·08	?	*	*
9. IRELAND, N.	Londonderry	63	35	55·7	38·1	46·9	− 2·2	3	0·21	−0·27	*	*
	Mullaghmore	57	42	52·3	43·1	47·7	− 2·2	4	0·07	?	*	*
	Markree Castle											
	Brookeborough	59	33	52·6	37·5	45·1	− 4·4	4	0·34	?	*	*
	Armagh	57	32	52·2	38·4	45·3	− 4·2	3	0·26	−0·13	35	33
	Donaghadee	55	40	50·7	41·4	46·1	− 3·9	1	0·03	?	*	*
10. IRELAND, S.	Dublin	55	38	50·8	42·3	46·6	− 3·6	3	0·43	−0·09	51	49
	Parsonstown	59	30	54·0	36·6	45·3	− 4·8	1	0·16	−0·32	48	46
	Roche's Point	59	38	54·0	40·4	47·2	− 2·8	2	0·39	−0·27	*	*
	Valencia	59	40	55·7	42·3	49·0	− 2·8	2	0·21	−0·59	67	64
	Foynes									?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 19.] WEEK ENDING MONDAY, MAY 14, 1883. [*Price 2d.* *Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	65	35	54	39	46	3 below.	3	2	2 less.	52	46
	2. ENGLAND, N.E.	65	33	52	40	46	4 below.	6	10	5 more.	34	31
	3. ENGLAND, E.	71	33	56	42	49	3 below.	6	8	4 more.	24	22
	4. MID. COUNTIES	67	31	54	41	47	5 below.	6	7	3 more.	19	18
	5. ENGLAND, S.	68	33	54	43	48	4 below.	7	11	7 more.	21	19
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	60	35	52	40	46	4 below.	4	8	3 more.	36	32
	7. ENGLAND, N.W.	64	35	52	41	47	5 below.	5	4	0 (average).	34	31
	8. ENGLAND, S.W.	61	33	53	43	48	5 below.	6	13	8 more.	20	18
	9. IRELAND, N.	62	33	53	40	46	5 below.	6	6	2 more.	47	43
	10. IRELAND, S.	64	32	53	42	47	5 below.	6	13	7 more.	41	38

General Remarks.

Weather has been rather changeable, but generally dull or cloudy, with rain at all stations. Heavy snow or sleet showers were experienced over the midland parts of England and Ireland on the 9th, 10th or 11th, and thunderstorms occurred in various parts of the country on two or three occasions.

Temperature has again been below the mean, the deficit ranging from 3° in "Scotland, E." and "England, E.", to 5° in Ireland and the western and central parts of England. During the first few days of the period the thermometer was very low, minimum readings varying from 31° in the "Midland Counties", to 35° in Scotland and "England, N.W." being registered. Towards the close of the week, however, temperature rose quickly, and in "England, E." reached a maximum of 71°, and in "England, S." of 68°.

Rain has been less than the mean in "Scotland, E." and about equal to it in "England, N.W.", but more in all other districts.

Bright sunshine shows a considerable increase in duration in "Scotland, E.", but a decided decrease elsewhere; the percentages varied from 18 over south-western and central England and 19 in "England, S.", to 43 in "Ireland, N." and 46 in "Scotland, E."

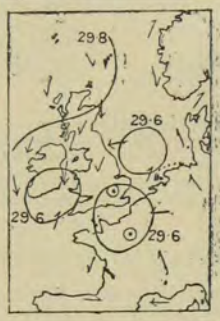
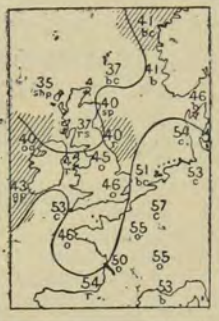
Depressions observed.—The changes in pressure over our Islands and their neighbourhood have been rather singular. At the commencement of the period three separate depressions were shown,—one over France, a second over the S.W. of England, and a third over the southern portion of the North Sea, while the barometer was highest to the north-westward of Scotland. As the week advanced, the two former disturbances dispersed, and the highest pressure was transferred to the southern part of our area; but the depression over the North Sea moved in a north-north-westerly or north-westerly direction, at the same time gradually growing deeper, and finally disappeared to the north-westward of the Hebrides. The wind, which at first blew freshly or strongly from the northward or north-eastward, subsequently backed slowly to the westward and moderated, but towards the close of the period a further backing to the southward took place, accompanied by an increase in force. At many of our northern and western stations moderate or fresh gales were experienced.

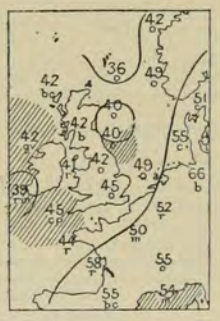
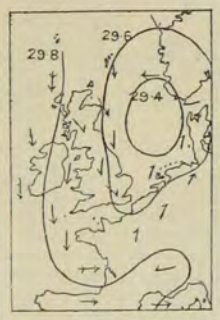
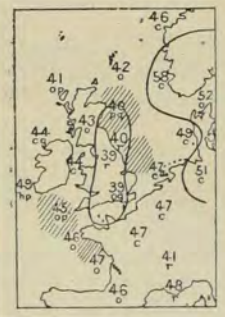
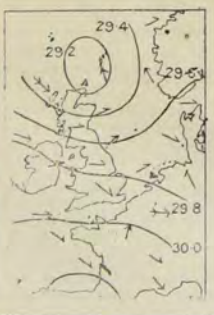
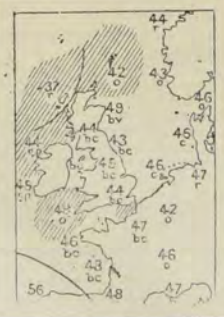
R 7170. 100 & 470.—5/83. Wt. 32. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending May 14, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, May 8.

Weather fine in the extreme N. of Scotland, cloudy or overcast elsewhere, with rain in many places, and sleet or hail at several of the western and northern stations.

Temperature fallen generally—several degrees in Scotland and Ireland; readings ranging from 53° at Scilly to 35° at Stornoway. Maximum readings very low for the time of year, thermometer at Shields not exceeding 40°.

Wind fresh or strong from N. and N.E. on our western and northern coasts, but light and variable in the S. and S.E.

Sea rough on the Northumberland and some parts of the Irish coasts, moderate or smooth elsewhere.

Barometer falling generally. Readings highest off our N.W. coasts, with three shallow depressions over the southern districts—one over our S.W. coasts, the second off the E. of England, and the third over the N. of France.

Wednesday, May 9.

Weather fine and bright in Sweden and the W. of Scotland, cloudy or overcast elsewhere, with snow at Parsonstown and rain in the S. of Ireland and W. of France. Cold showers falling subsequently in most parts of our Islands.

Temperature risen W. and N., fallen slightly in S.; readings ranging from 52° at Dover to 38° at Roche's Point and 36° at Sumburgh Head. Maxima still very low.

Wind light and somewhat variable in S., but strong from N.E. or N. in Ireland and Scotland, and moderate from S.E. in Denmark and the S. of Scandinavia.

Sea rough on our N.E. and W. coasts.

Barometer rising Sweden, falling elsewhere. Highest pressures now found over the Baltic, with large shallow area of low pressure over the N. of France and our S.W. coasts, and small disturbance over the southern portion of the North Sea. Rise taking place later.

Thursday, May 10.

Weather cloudy or overcast at all but the Swedish stations, with hail at Valencia, sleet at Oxford, and cold rain in many other places. Heavy rain falling in Scotland at night.

Temperature fallen in the S.; readings ranging from 49° at Valencia to 36° at Oxford. Maxima remaining low.

Wind south-westerly in the S.E. and south-easterly in Scandinavia, generally northerly elsewhere; strong to a gale at some northern stations. Subsequently backing to N.W. on all the British coasts.

Sea rough in the N.E. as well as at Scilly; moderate or slight elsewhere.

Barometer falling N. and E., rising elsewhere. Area of low pressures shown over the N. of France on previous day now disappearing, but depression over the North Sea growing deeper and travelling slowly in a north-westerly direction. Barometer continuing to fall in N. all day.

Friday, May 11.

Weather finer than of late, but rain still falling at Stornoway, and occasional showers in the W. of Ireland. Showers subsequently falling generally, and a thunderstorm occurring in London in the afternoon.

Temperature risen in most places; readings ranging from 49° at Aberdeen and 48° at Scilly to 37° at Stornoway. Maxima rather higher than on previous few days, but still low for time of year.

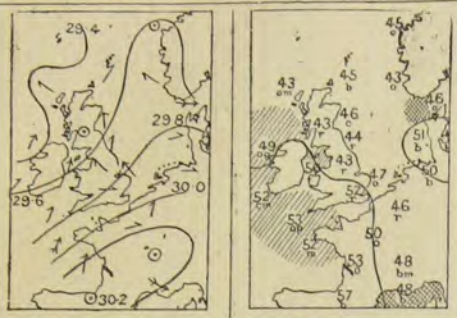
Wind north-westerly or westerly on nearly all coasts; moderate in force in S., but strong at many of the more northern stations. Subsequently backing to S.E. in Ireland and to S.W. in the W. of England.

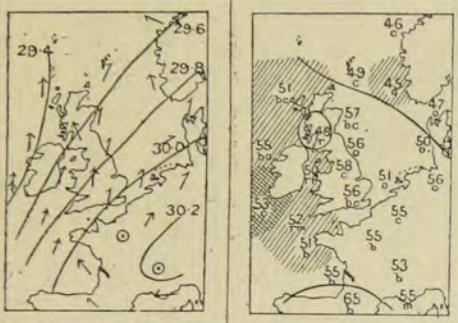
Sea rough in the extreme N., and also on some parts of our western coasts.

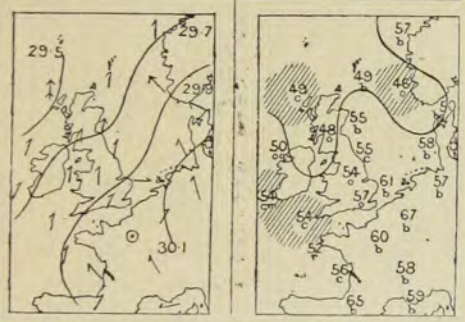
Barometer falling N., rising elsewhere. Depression shown over North Sea on Wednesday and Thursday now between the Shetlands and Orkneys, and area of high pressure appearing over the Bay of Biscay. Rise extending to N. later, but brisk fall commencing in W.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, May 12.

Weather fine in the N. of Scotland and S. of France, cloudy or overcast elsewhere, with rain in many places. Unsettled weather extending to N. later.

Temperature again risen; readings ranging from 53° at Scilly to 43° at Wick and York.

Wind generally south-westerly; moderate in N. and E., but strong in W. and S., with a slight gale in the Channel. Subsequently increasing to gale in Ireland and the W. of Scotland.

Sea rough on our western and southern coasts.

Barometer falling at all but the extreme northern stations. Depression of previous three days entirely disappeared, but series of disturbances beginning to move in a north-easterly direction outside our western and northern coasts. Rise taking place in S. and E. later.

Sunday, May 13.

Weather fine in the N. of Scotland and S.E. of England, cloudy and unsettled elsewhere, with showers in a few places.

Temperature risen generally, quickly in E. and N.E.; readings ranging from 58° at York to 49° in the Shetlands. Subsequently rising to 68° in London and at Cambridge and to 66° at Loughborough and Oxford.

Wind south-easterly in the W. of France, southerly or south-westerly elsewhere; strong to a gale in the extreme W. and N.W. of our Islands.

Sea high at Valencia, rough in the W. and S.W. generally.

Barometer rising at all but the Irish stations. Readings now highest over central France, but depressions continuing to move along our western coasts in a north-easterly direction. Fall taking place later over France and the S.E. of England.

Monday, May 14.

Weather fine at many of the western and northern stations, and also in the extreme S.E., cloudy and unsettled elsewhere, with rain in several places. Thunderstorm occurring at Dover towards night.

Temperature fallen a little at most stations; readings ranging from 61° at Yarmouth and 37° in London to 49° in the Shetlands and Hebrides.

Wind still south-westerly or southerly generally; strong in force in the N., but falling moderate in the W. and light in the S.

Sea rough in the S.W., and also at Stornoway, moderate or smooth elsewhere.

Barometer falling at the French and south-eastern stations, rising elsewhere. Highest readings now found over N. Germany, and lowest off our N.W. coasts, with one or two exceedingly shallow depressions over the N. of France and S.E. of England. Rise taking place in France later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	55	30	48·0	37·6	42·8	−3·5	5	1·34	+1·02	*	*
	Stornoway	54	30	48·4	35·9	42·2	−5·1	5	1·73	+1·17	37	33
	Wick	61	30	51·6	37·7	44·7	−2·1	4	1·14	+0·84	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	58	41	53·9	44·6	49·3	−3·6	6	0·83	+0·54	*	*
	Jersey (Noirmont)	66	39	54·9	44·0	49·5	−4·0	6	0·80	+0·39	28	27

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	65	35	53·0	39·3	46·2	− 2·2	2	0·24	−0·11	*	*
	Aberdeen	61	35	54·0	38·4	46·2	− 1·8	4	0·18	−0·25	52	46
	Leith	63	35	53·9	38·4	46·2	− 3·7	4	0·19	−0·21	*	*
2. ENGLAND, N.E.	Alnwick Castle	63	34	51·1	38·7	44·9	− 3·8	5	1·09	?	*	*
	Shields	64	36	51·4	39·1	45·3	− 3·9	6	0·96	+0·56	*	*
	Durham	65	33	51·7	38·0	44·9	− 4·3	6	1·06	+0·65	34	31
	Scarborough ℳ	63	37	52·1	42·6	47·4	− 2·4	6	1·20	+0·80	*	*
	York	64	36	54·3	39·4	46·9	− 4·6	6	0·79	+0·39		
	Spurn Head	64	35	52·1	41·7	46·9	− 3·3	6	0·80	?	*	*
3. ENGLAND, E.	Hillington ℳ	70	35	56·0	41·8	48·9	− 2·1	6	0·69	+0·29	21	19
	Yarmouth	64	36	54·1	42·1	48·1	− 3·6	6	0·72	+0·32	*	*
	Geldeston	71	35	58·1	42·4	50·3	− 1·7	6	0·59	+0·31	32	30
	Cambridge	68	34	55·7	40·9	48·3	− 4·3	6	0·74	+0·36	*	*
	Rothamsted	66	33	53·5	40·3	46·9	− 5·1	7	1·21	+0·80		
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	65	35	54·7	41·1	47·9	− 3·8	5	0·46	+0·10	*	*
	Loughborough	66	37	54·4	42·0	48·2	− 3·9	6	0·76	+0·31	*	*
	Leicester	67	36	54·1	42·2	48·2	− 3·8	5	0·78	+0·40	18	17
	Birmingham (Oscott)	62	33	52·9	39·8	46·4	− 5·2	7	0·99	+0·49	*	*
	Cheadle ℳ	60	34	52·7	39·8	46·3	− 5·4	6	0·36	?	*	*
	Churchstoke ℳ	63	32	52·8	38·7	45·8	− 5·4	6	0·61	?	26	24
	Hereford ℳ	65	34	57·5	40·6	49·1	− 3·2	5	0·28	−0·13	*	*
	Cirencester	62	31	53·7	40·1	46·9	− 5·1	6	0·61	+0·13	15	14
	Oxford	66	35	53·6	42·3	48·0	− 4·3	6	1·06	+0·66	16	15
5. ENGLAND, S.	London†	68	36	54·7	44·0	49·4	− 4·3	6	1·30	+0·90	18	17
	Marlborough ℳ	64	33	52·5	40·1	46·3	− 4·5	7	1·15	+0·67	13	12
	Strathfield Turgiss ℳ	65	35	56·2	40·9	48·6	− 3·0	7	1·12	+0·73	*	*
	Dover	62	42	53·7	44·9	49·3	− 3·4	6	0·83	+0·40	*	*
	Hastings (St. Leonard's)	63	38	53·6	44·3	49·0	− 3·3	6	1·19	+0·80	37	35
	Southampton	65	37	53·9	?42·9	?48·4	?− 4·2	7	1·35	?	14	13
	Hurst Castle	60	37	52·9	42·9	47·9	− 4·8	7	1·03	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡										*	*
	Glasgow	60	35	52·2	39·5	45·9	− 3·2	4	0·51	−0·05	28	25
	Ardrossan	53	35	50·4	38·9	44·7	− 4·5	5	0·63	+0·13	*	*
	Silloth (Cumberland)	60	35	52·3	40·1	46·2	− 4·6	4	0·57	+0·17	39	35
	Douglas (Isle of Man)	57	36	51·4	40·9	46·2	− 3·1	4	1·45	+1·05		
7. ENGLAND, N.W.	Barrow-in-Furness	58	38	52·4	40·7	46·6	− 4·6	5	0·47	?	*	*
	Stonyhurst	62	35	51·8	39·8	45·8	− 5·3	5	0·55	+0·01	34	31
	Blackpool ℳ	57	37	51·1	40·4	45·6	− 6·3	6	0·36	−0·04	36	33
	Manchester	64	35	52·3	40·0	46·2	− 5·4	5	0·37	−0·13	*	*
	Liverpool Obsy (Bidston)	61	37	53·4	41·7	47·6	− 4·3	5	0·24	−0·06	*	*
	Llandudno ℳ	62	39	53·3	42·6	48·0	− 4·2	2	0·60	+0·22	31	29
	Holyhead	56	?39	?50·7	?42·3	?46·5	?− 5·3	4	0·49	+0·14	*	*
8. ENGLAND, S.W.	Pembroke	53	40	50·4	44·0	47·2	− 4·5	7	0·76	+0·28	30	28
	Arlington (N. Devon)	59	33	52·6	39·4	46·0	− 5·7	6	1·94	?	*	*
	Cullompton ℳ	61	33	55·5	40·5	48·0	− 5·0	5	1·07	?	13	12
	Falmouth	58	40	52·5	45·2	49·0	− 3·4	6	1·43	+0·87	20	19
	Plymouth	58	38	53·7	44·0	48·9	− 4·6	5	1·56	+1·10	15	14
	Prawle Point	55	36	51·1	41·6	46·4	− 5·3	4	1·22	?	*	*
9. IRELAND, N.	Londonderry	61	34	53·9	38·1	46·0	− 4·6	5	0·60	+0·15	*	*
	Mullaghmore	59	36	51·4	40·7	46·1	− 5·4	6	0·49	?	*	*
	Markree Castle											
	Brookeborough	61	33	53·3	39·3	46·3	− 4·9	6	0·54	?	*	*
	Armagh	62	34	54·4	39·7	47·1	− 4·0	7	0·70	+0·34	47	43
	Donaghadee	60	35	52·3	41·0	46·7	− 3·6	4	0·46	?	*	*
10. IRELAND, S.	Dublin	64	35	54·9	41·7	48·3	− 3·3	5	1·48	+0·98	43	40
	Parsonstown	62	32	53·0	39·4	46·2	− 5·6	5	1·51	+1·01	39	36
	Roche's Point	55	37	51·3	42·4	46·9	− 5·8	6	1·11	+0·41	*	*
	Valencia	58	37	53·1	42·7	47·9	− 4·0	6	1·03	+0·37	40	37
	Foynes									?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 20.] WEEK ENDING MONDAY, MAY 21, 1883. [*Price 2d.*
[*Annual subscription post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. Δ "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	67	39	58	42	50	1 above.	4	2	2 less.	43	37
	2. ENGLAND, N.E.	72	36	60	43	51	1 above.	0	—	4 less.	45	40
	3. ENGLAND, E.	72	32	62	45	53	0 (average).	1	less than ½	4 less.	53	48
	4. MID. COUNTIES	75	36	63	46	55	2 above.	1	less than ½	4 less.	36	33
	5. ENGLAND, S.	76	42	64	48	56	3 above.	1	less than ½	4 less.	49	45
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	64	34	58	43	51	0 (average).	2	2	4 less.	43	38
	7. ENGLAND, N.W.	67	39	59	46	52	1 below	2	2	2 less.	47	42
	8. ENGLAND, S.W.	72	43	62	40	55	2 above.	1	1	5 less.	53	49
	9. IRELAND, N.	67	34	58	45	52	0 (average).	3	2	2 less.	42	38
	10. IRELAND, S.	69	37	61	46	54	1 above.	1	less than ½	6 less.	63	57

General Remarks.

Weather has been upon the whole fine and bright in all but the northern parts of the Kingdom, where cloud has been rather prevalent.

Temperature has continued slightly below the mean in "England, N.W.", but has been about equal to it in "England, E.", "Scotland, W.", and "Ireland, N.", and a little above it in all other districts. The maxima, which were generally recorded on the 16th, were as high as 76° in "England, S.", 75° in the "Midland Counties", and from 64° to 72° elsewhere. The minima were registered towards the close of the period, and varied from 32° in "England, E." and 34° in "Scotland, W." and "Ireland, N.", to 42° in "England, S." and 43° in "England, S.W."

Rainfall has been considerably less than the mean in all districts. At many of the English stations and in some parts of Ireland there has been a complete absence of rain.

Bright sunshine has been more prevalent than of late, the percentages of possible duration varying from 57 in "Ireland, S." and 49 in "England, S.W.", to 33 in the "Midland Counties."

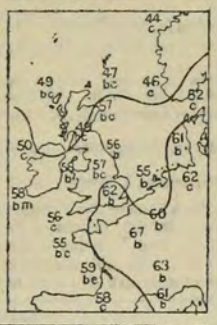
Depressions observed.—The changes in barometric pressure over our Islands and their neighbourhood have been few and slight. The only depression noticed was one over Scandinavia on the 19th, while over our Islands and the greater part of France a large area of high pressure has existed. The general direction of the wind, which excepting on the 19th, was very light in force, was easterly or north-easterly at all the more southern stations and westerly in the N., while at the western stations very variable breezes prevailed.

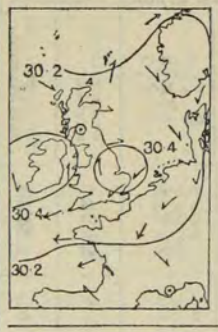
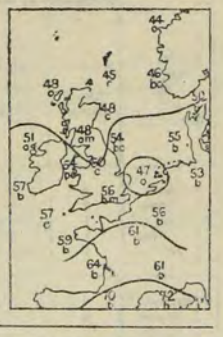
R 7307. 100 & 470.—5/83. Wt. 32. E. & S.

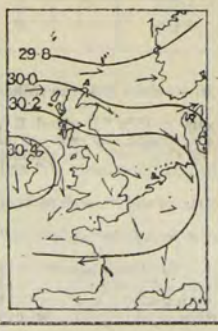
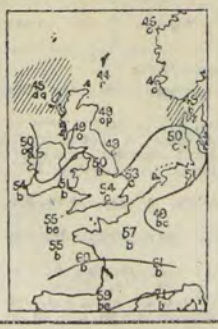
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending May 21, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, May 15.

Weather fair generally in morning, but showers falling in Scotland later.

Temperature changed irregularly; readings ranging from 60° in London to 47° at Ardrossan. Highest maxima registered 70° at Loughborough and Cambridge, 69° at York, and 67° in London.

Wind moderate south-westerly in extreme N., and light north-easterly in S., with variable airs at the more central stations.

Sea rather rough at Scilly, slight or smooth elsewhere.

Barometer rising in nearly all places. Readings highest over the S. of Sweden, with relatively low pressures to the northward of Scotland and southward of France. Anticyclone subsequently appearing over Ireland.

Wednesday, May 16.

Weather fine generally.

Temperature fallen in N., risen elsewhere; readings ranging from 62° in London to 47° at Sumburgh Head. Highest maxima 75° at Loughborough, 74° in London, and 72° at York and Cambridge.

Wind moderate northerly on the eastern shores of the North Sea, and north-easterly on our southern coasts, but light and variable elsewhere.

Sea moderate or smooth on all our coasts.

Barometer still rising generally. Eastern edge of an anticyclone, with readings above 30·4 ins., lying over the N. of Ireland, and lowest readings found off the N.W. of Norway. Anticyclone moving eastwards later, and slight fall of barometer taking place in Ireland.

Thursday, May 17.

Weather dull and rainy in extreme N., fine elsewhere. Some improvment taking place in N. later.

Temperature fallen generally; readings ranging from 58° at Dover to 45° in the Shetlands. Highest maxima 69° at Loughborough and Oxford, and 68° at York and in London.

Wind westerly in North Scotland, northerly on eastern shores of North Sea, and north-easterly on our southern and the French coasts, with variable airs at the more central stations. Veering to N.W. in N. later.

Sea slight or smooth.

Barometer falling in Scotland, still rising elsewhere. Areas of high pressure lying over Ireland and the E. of England, with relatively low readings to the northward of Scotland and southward of France. Fall of barometer subsequently extending southwards, and eastern high pressure area breaking up.

Friday, May 18.

Weather dull and unsettled in Scotland, with drizzling rain at a few stations; fine elsewhere. Cloud subsequently extending to all but our S. coasts. Solar and lunar halos observed in London.

Temperature fallen at most stations; readings ranging from 60° at Prawle Point to 44° at Sumburgh Head. Maxima much lower than of late.

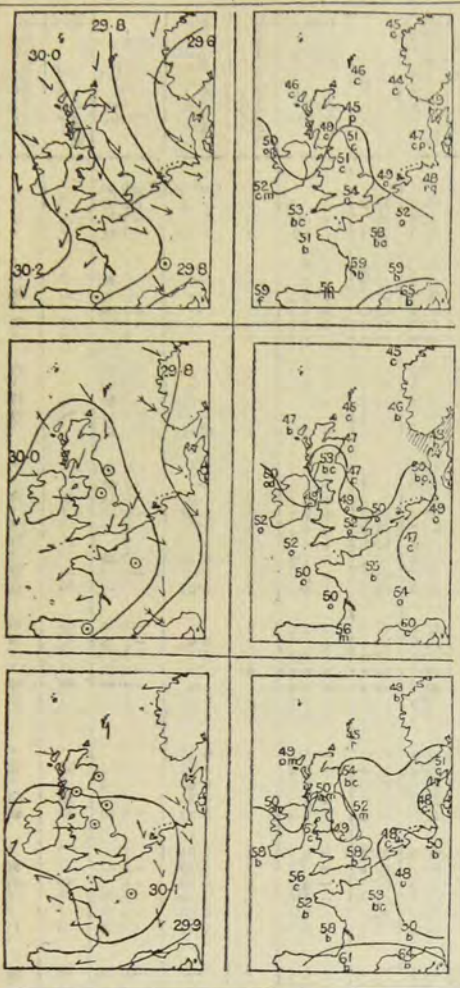
Wind westerly or north-westerly on our N. and E. coasts, but northerly in S. and easterly in France. Strong in force at several of the more northern stations.

Sea rather rough at Stornoway, slight or smooth elsewhere.

Barometer rising France, falling elsewhere—most in N. Anticyclone lying over Ireland, and some large depressions passing along in an easterly direction to the northward of Scotland. Fall extending to French stations later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, May 19.

Weather fine in France and the S.W. of England, but cloudy in most other localities, with showers at Aberdeen. Slight rain falling subsequently in many parts of our Islands.

Temperature fallen slightly at the majority of stations; readings ranging from 54° in the S. of England to 43° at Nairn.

Wind north easterly in the W. of France, north-westerly or northerly elsewhere; fresh or strong in force on our E. and N.E. coasts. Subsequently falling light and variable in many parts of our Islands.

Sea moderate or smooth.

Barometer falling generally. Area of highest pressure now lying off our S.W. coasts, and large depression passing in a south-easterly direction across the S. of Sweden. Recovery of pressure taking place in N. later.

Sunday, May 20.

Weather dull and rainy at several of the central and north-western stations, but fair in most other places. Rain ceasing later.

Temperature risen in the N.W. and N., fallen slightly elsewhere; readings ranging from 54° at Prawle Point to 45° at Sumburgh Head. Maxima very low for time of year.

Wind fresh or strong north-westerly on the eastern shores of the North Sea, and light north-easterly in the W. of France, but variable airs reported from all parts of our Islands.

Sea moderate or smooth.

Barometer rising N. and E., falling elsewhere. Highest readings now lying over the Bay of Biscay, and large depression noticed over the S. of Sweden on previous day passing away to the eastward. Pressure over our Islands very uniform.

Monday, May 21.

Weather dull in the N.W. and N., with rain at a few stations, but fair in most other localities. Solar and lunar halos observed in the S. of England in evening.

Temperature risen a few degrees; readings ranging from 58° at Valencia and in London to 45° at Sumburgh Head.

Wind light or moderate generally; westerly in N. and easterly in S., with variable airs at the intermediate stations.

Sea slight or smooth.

Barometer falling a little in extreme N., rising elsewhere. Large anticyclone lying over England, Ireland, and the greater part of France, its central portion being off our S.W. coasts. No important change later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟫⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.)						Rainfall.			Bright Sunshine	
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	54	35	50·7	40·3	45·5	−1·6	4	0·57	+0·27	*	*
	Stornoway	57	35	52·9	41·6	47·3	−0·8	5	0·65	+0·07	36	31
	Wick	60	35	53·7	40·0	46·9	−0·7	5	0·54	+0·26	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	62	48	57·9	50·3	54·1	+0·4	0	—	−0·26	*	*
	Jersey (Noirmont)	65	47	62·6	49·4	56·0	+1·6	1	0·10	−0·30	78	73

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	64	42	55·0	43·6	49·3	− 0·1	6	0·38	+0·02	*	*
	Aberdeen	64	39	57·9	41·3	49·6	+ 0·5	4	0·22	−0·20	43	37
	Leith	67	39	62·3	42·0	52·2	+ 1·3	1	0·09	−0·31	*	*
2. ENGLAND, N.E.	Alnwick Castle	61	36	58·0	42·3	50·2	+ 0·5	0	—	?	*	*
	Shields	64	39	57·7	42·0	49·9	− 0·3	0	—	−0·40	*	*
	Durham	70	36	62·8	39·4	51·1	+ 0·8	0	—	−0·40	49	43
	Scarborough ℳ	66	42	59·6	46·0	52·8	+ 1·9	0	—	−0·40	*	*
	York	72	39	64·7	44·3	54·5	+ 1·7	0	—	−0·39	41	37
	Spurn Head	58	41	54·6	44·9	49·8	− 1·5	0	—	?	*	*
3. ENGLAND, E.	Hillington ℳ	71	32	64·3	43·9	54·1	+ 2·1	2	0·04	−0·35	55	50
	Yarmouth	62	42	56·0	45·4	50·7	− 2·1	0	—	−0·40	*	*
	Geldeston	68	33	61·0	43·9	52·5	− 0·5	0	—	−0·28	61	55
	Cambridge	72	37	65·1	45·1	55·1	− 1·3	0	—	−0·39	44	40
	Rothamsted	69	38	63·3	45·7	54·5	+ 1·4	1	0·01	−0·40	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	72	36	65·4	44·4	54·9	+ 2·1	0	—	−0·39	*	*
	Loughborough	75	37	65·0	45·3	55·2	+ 1·9	0	—	−0·49	*	*
	Leicester	74	38	66·4	45·3	55·9	+ 2·7	0	—	−0·44	43	39
	Birmingham (Oscott)	70	44	61·6	46·1	53·9	+ 1·1	2	0·09	−0·43	*	*
	Cheadle ℳ	70	42	59·9	44·7	52·3	+ 0·4	1	0·08	?	*	*
	Churchstoke ℳ	69	41	61·4	44·8	53·1	+ 0·9	3	0·13	?	27	24
	Hereford ℳ	72	40	64·0	46·6	55·3	+ 1·9	1	0·02	−0·40	*	*
	Cirencester	69	46	62·6	47·7	55·2	+ 2·1	2	0·01	−0·49	30	27
	Oxford	70	46	63·1	49·3	56·2	+ 2·8	2	0·05	−0·35	45	41
5. ENGLAND, S.	London†	74	42	65·1	47·7	56·4	+ 1·6	0	—	−0·40	43	40
	Marlborough	70	46	63·4	47·9	55·7	+ 3·9	2	0·05	−0·42	37	34
	Strathfield Turgiss ℳ	75	44	66·6	47·2	56·9	+ 4·3	1	0·02	−0·30	*	*
	Dover	64	44	60·4	48·7	54·6	+ 0·9	0	—	−0·45	*	*
	Hastings (St. Leonard's)	71	47	63·4	49·5	56 5	+ 3·2	0	—	−0·35	65	60
	Southampton	76	47	65·5	49·0	57·3	+ 3·7	2	0·07	?	51	47
	Hurst Castle	67	43	62·7	48·0	55·4	+ 1·9	1	0·03	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	61	40	54·6	42·3	48·5	− 1·4	5	0·45	?	*	*
	Glasgow	63	39	59·1	43·6	51·4	+ 1·4	1	0·01	−0·56	36	32
	Ardrossan	59	38	55·9	43·3	49·6	− 0·6	3	0·06	−0·44	*	*
	Silloth (Cumberland)	64	34	60·7	42·4	51·6	− 0·2	1	0·02	−0·38	40	35
	Douglas (Isle of Man)	64	36	59·2	43·3	51·3	+ 1·2	2	0·20	−0·19	52	46
7. ENGLAND, N.W.	Barrow-in-Furness	64	44	59·0	46·6	52·8	+ 0·7	1	0·04	?	*	*
	Stonyhurst	66	41	59·6	44 6	52·1	+ 0·1	1	0·10	−0·45	42	38
	Blackpool ℳ	59	39	56·5	44·4	50·5	− 2·2	2	0·15	−0·25	48	43
	Manchester	67	43	59·4	44·1	51·8	− 1·0	3	0·05	−0·35	*	*
	Liverpool Obsy (Bidston)	62	46	58·6	47·3	53·0	0·0	2	0·31	−0·02	*	*
	Llandudno ℳ	63	43	57·5	46·9	52·2	− 0·9	1	0·47	+0·11	50	45
	Holyhead										*	*
8. ENGLAND, S.W.	Pembroke	66	46	58·0	48·6	53·3	+ 0·8	0	—	−0·48	70	64
	Arlington (N. Devon)	68	43	60·6	46·7	53·7	+ 1·1	0	—	?	*	*
	Cullompton ℳ	72	43	64·7	47·1	55·9	+ 2·0	0	—	?	35	32
	Falmouth	66	47	60·1	49·9	55·0	+ 1·8	1	0·02	−0·63	54	50
	Plymouth	72	47	65·4	50·7	58·1	+ 3·7	1	0·25	−0·18	54	50
	Prawle Point	65	46	61·3	48·4	54·9	+ 2·4	0	—	?	*	*
9. IRELAND, N.	Londonderry	66	37	60·5	44·1	52·3	+ 0·8	3	0·23	−0·20	*	*
	Mullaghmore	58	47	55·3	48·4	51·9	− 0·5	2	0·12	?	*	*
	Markree Castle											
	Brookeborough	66	34	60·4	43·2	51·8	− 0·3	1	0·02	?	*	*
	Armagh	67	40	60·6	45·3	53·0	+ 0·9	2	0·05	−0·30	42	38
	Donaghadee	57	38	54·6	43·3	49·0	− 2·3	5	0·40	?	*	*
10. IRELAND, S.	Dublin	67	43	61·5	47·0	54·3	+ 1·9	1	0·03	−0·46	52	47
	Parsonstown	69	37	63·4	42·6	53·0	+ 0·3	0	—	−0 53	54	49
	Roche's Point	63	44	60·7	46·7	53·7	0·0	0	—	−0·73	*	*
	Valencia	64	42	60·6	46·0	53·3	+ 0·7	1	0·11	−0·54	84	76
	Foynes										*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 21.] WEEK ENDING MONDAY, MAY 28, 1883. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.*	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	73	38	63	47	55	4 above.	4	1	3 less.	42	36
	2. ENGLAND, N.E.	75	38	64	47	56	4 above.	2	1	3 less.	62	55
	3. ENGLAND, E.	78	42	68	47	58	3 above.	2	6	2 more.	66	59
	4. MID. COUNTIES	77	36	68	46	57	3 above.	2	5	0 (average).	60	53
	5. ENGLAND, S.	79	37	66	47	56	1 above.	2	7	3 more.	68	62
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	64	35	57	46	52	0 (average).	4	13	5 more.	49	42
	7. ENGLAND, N.W.	67	37	60	48	54	0 (average).	2	1	3 less.	61	54
	8. ENGLAND, S.W.	71	39	61	47	54	1 below.	2	3	2 less.	48	43
	9. IRELAND, N.	68	30	60	44	52	1 below.	4	8	3 more.	40	35
	10. IRELAND, S.	69	37	61	47	54	0 (average).	3	8	3 more.	34	31

General Remarks.

Weather continued very fine during the earlier part of the period, but by the 25th it had become unsettled and rainy in almost all districts, and in the W. and N. it remained cloudy and showery till the close of the week.

Temperature has been slightly below the mean in "England, S.W." and "Ireland, N." and about equal to it in the other "Grazing" districts, but in all the "Wheat-producing" districts it has ranged from 1° to 4° above its normal value. The thermometer was generally highest on the 24th, when it rose to 79° in "England, S.", 78° in "England, E.", 77° in the "Midland Counties", and to between 64° and 75° elsewhere. The minima, which were registered in most places on the 27th, varied from 35° to 42° in most districts, but in "Ireland, N." temperature fell as low as 30°.

Rainfall has been rather more than the mean in the S. and E. of England, in "Scotland, W.", and over Ireland, but less in nearly all other districts.

Bright sunshine has been more prevalent than during last week in most parts of Great Britain, but less so over Ireland and in "Scotland, E." The percentages of possible duration ranged from 31 in "Ireland, S." to 59 in "England, E." and 62 in "England, S."

Depressions observed.—During the earlier part of this week the barometer was highest over France and our southern coasts, while some depressions were travelling in an easterly direction far to the north-westward or northward of our Islands. The resulting winds were consequently south-westerly to westerly, and occasionally strong in the extreme W. and N. As the week advanced, however, the track of the disturbances lay more to the southward, and by the 26th a shallow depression had reached the S.E. of England, the wind, meanwhile, shifting to the north-westward on all our coasts. During the following day this disturbance disappeared to the east-north-eastward and pressure over England and France increased briskly, but at the close of the period depressions were again skirting our western and northern coasts, causing a very unsteady barometer in Ireland and Scotland, and fresh or strong southerly winds at nearly all stations.

R 7441. 100 & 470.—6/83. Wt. 32. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending May 28, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, May 22.

Weather dull in the W. and N., with rain in Norway and some parts of Scotland, but fine in the E. and S. Sky clearing in W. later.

Temperature risen except extreme N.; readings ranging from 60° at Shields to 44° in the Shetlands. Highest maxima 72° at Loughborough, Cambridge, and in London, and 71° at Spurn Head.

Wind light easterly in S., but moderate south-westerly or westerly in N., with variable airs at the intermediate stations. South-westerly or westerly breezes becoming general later.

Sea rough off the S. of Norway, slight or smooth elsewhere.

Barometer rising a little at our southern and the French stations, but falling in the N. Large anticyclone lying over our more southern districts, with its central area over Belgium and the N.E. of France, but depressions moving along to the northward of Scotland.

Wednesday, May 23.

Weather very fine over our midland and south-eastern districts as well as in France, but cloudy or overcast in the N.W. and N., with rain in the Shetlands and Hebrides. Fine weather becoming general later.

Temperature fallen a little in the E. and N. of England, but risen in most other localities; readings ranging from 65° in London to 46° at Sumburgh Head. Highest maxima 77° in London, 76° at Cambridge, and 75° at Loughborough.

Wind light and variable in France, south-westerly or westerly elsewhere; blowing strongly in the extreme N. of Scotland.

Sea rather rough at Stornoway, but slight or smooth on other parts of our coasts.

Barometer falling at all but our south-western and the French stations. Anticyclone now over France and the Channel, and depressions to the northward of Scotland, increasing in importance. Fall becoming general towards night.

Thursday, May 24.

Weather dull in the extreme N. of Scotland, and also on our S.W. coasts; fine elsewhere. Sky subsequently becoming cloudy at all western stations.

Temperature risen except S.; readings ranging from 64° at Aberdeen and Yarmouth to 50° at Sumburgh Head and Dover. Highest maxima 79° in London, 78° at Cambridge, and 77° at Loughborough; thermometer at Dover not exceeding 55°.

Wind easterly in the S. of France, south-westerly or westerly elsewhere; strong to a gale in the extreme N. and N.W.

Sea rather rough off the N. of Scotland, slight or smooth on our other coasts.

Barometer falling generally. Anticyclone still lying over France, but depressions in far N. approaching nearer to Scotland. High pressure area subsequently breaking up.

Friday, May 25.

Weather continuing fine at our eastern and central stations, but dull in the W. and S.W., with rain at Valencia. Rain falling later in the W. and N. generally, and thunderstorms occurring in S. of England.

Temperature changed irregularly; readings ranging from 60° at Aberdeen, Loughborough, and in London, to 50° at Sumburgh Head. Highest maxima 76° at Cambridge and 75° at Loughborough and in London.

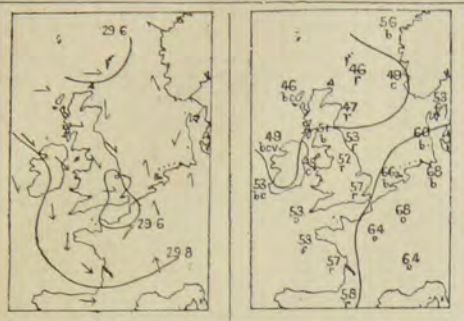
Wind light easterly in the Channel and Bay of Biscay, southerly or south-westerly elsewhere; strong to a gale on the W. coasts of Ireland and Scotland. Subsequently shifting to N.W. in Ireland, and moderating.

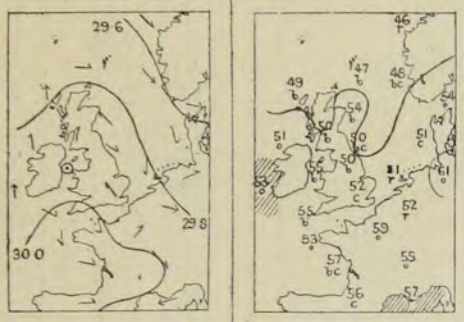
Sea high at Stornoway, rough at Valencia. Slight or smooth elsewhere.

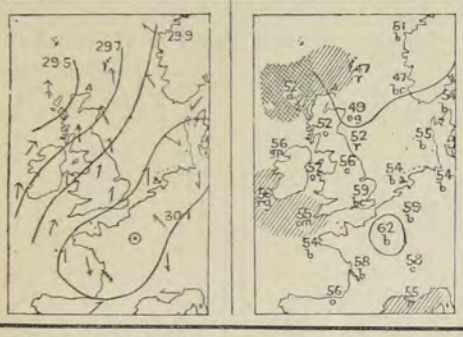
Barometer rising Scandinavia, falling our Islands and France. Highest readings now found over the S.E. of France, and depressions travelling in a northerly direction outside our eastern coasts. Rise taking place in N.W. later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, May 26.

Weather dull and rainy in the E. and S.E. of our Islands and also in the W. of France, fine in the W. and N.W.

Temperature fallen generally; readings ranging from 59° at Cambridge and Yarmouth to 46° in the Shetlands and Hebrides. Maxima much lower than of late; thermometer in London not exceeding 64°.

Wind southerly or south-easterly on the eastern shores of the North Sea, but north-westerly or northerly in all parts of our Islands excepting the S.E. of England.

Sea slight or smooth.

Barometer rising in Scotland and Ireland, falling elsewhere. Readings relatively high both to the south-westward and north-westward of our Islands, with shallow depressions over the E. and S.E. of England. Rise extending eastwards and southwards later.

Sunday, May 27.

Weather dull in the W. of Ireland and also over the midland parts of England, fine elsewhere. Sky clearing in central England later.

Temperature fallen E. and N. of England, but risen on our W. coasts; readings ranging from 58° at Prawle Point to 47° at Sumburgh Head.

Wind moderate southerly in the W. and N., but variable or light north-westerly in the E. and S. Southerly winds subsequently increasing to a strong breeze in the W. of Ireland and Scotland.

Sea rather rough at Valencia, slight or smooth elsewhere.

Barometer falling in Scandinavia and also on our extreme western coasts, rising elsewhere. Highest readings found over the W. and S.W. of France and lowest in Norway. Depressions skirting our W. and northern coasts later.

Monday, May 28.

Weather fine at the Continental and south-eastern stations, cloudy or overcast elsewhere, with rain in the W. and N.

Temperature risen most places; readings ranging from 61° at Nairn and 59° at Dover and in London to 47° in the Shetlands.

Wind southerly or south-westerly; moderate in the E. and S., but strong to a gale in the W. and N.

Sea high at Stornoway, rough at Sumburgh Head, Valencia, and Scilly, moderate or smooth on other parts of our coasts.

Barometer falling at our western and northern stations, rising elsewhere. Anticyclone lying over France, the Netherlands, and N. Germany, with depression off the Hebrides. Fall extending to S.E. later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➔ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	58	41	52·6	42·1	47·4	−0·9	6	0·44	+0·14	*	*
	Stornoway	56	36	53·1	43·4	48·3	−1·0	4	0·34	−0·26	27	23
	Wick	64	36	59·0	44·4	51·7	+2·7	3	0·34	+0·08	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	62	49	59·6	51·6	55·6	+0·9	2	0·26	−0·04	*	*
	Jersey (Noirmont)	67	45	62·3	49·4	55·9	+0·5	2	0·96	+0·56	62	57

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day §	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	68	38	61·7	47·1	54·4	+ 3·6	4	0·13	−0·27	*	*
	Aberdeen	73	38	62·7	46·1	54·4	+ 3·8	4	0·19	−0·22	42	36
	Leith	70	41	64·6	47·7	56·2	+ 3·9	3	0·09	−0·32	*	*
2. ENGLAND, N.E.	Alnwick Castle	65	38	60·7	47·0	53·9	+ 2·8	3	0·03	?	*	*
	Shields	70	38	63·1	46·7	54·9	+ 3·3	2	0·03	−0·37	*	*
	Durham	70	38	66·0	44·9	55·5	+ 3·7	3	0·05	−0·36	58	51
	Scarborough ℞	73	44	65·2	48·5	56·9	+ 4·8	2	0·29	−0·16	*	*
	York	70	40	67·1	47·3	57·2	+ 3·2	1	0·06	−0·34	66	58
	Spurn Head	75	45	64·1	49·7	56·9	+ 4·3	1	0·12	?	*	*
3. ENGLAND, E.	Hillington ℞	78	44	70·8	46·2	58·5	+ 5·0	1	0·48	+0·07	63	56
	Yarmouth	70	45	61·0	49·0	55·0	+ 0·9	2	0·84	+0·40	*	*
	Geldeston	77	45	68·8	47·4	58·1	+ 3·7	2	0·58	+0·28	68	61
	Cambridge	78	43	70·9	48·4	59·7	+ 4·4	1	0·42	+0·05	?	?
	Rothamsted	76	42	69·3	44·8	57·1	+ 2·2	3	0·52	+0·07	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	77	42	69·3	46·1	57·2	+ 3·0	2	0·64	+0·23	*	*
	Loughborough	77	44	70·1	48·6	59·4	+ 4·5	2	0·75	+0·23	*	*
	Leicester	77	44	70·2	48·6	59·4	+ 4·5	2	0·51	+0·01	60	53
	Birmingham (Oscott)	74	41	68·5	47·2	57·9	+ 3·5	1	0·18	−0·36	*	*
	Cheadle ℞	70	41	65·7	45·5	55·6	+ 2·2	2	0·39	?	*	*
	Churchstoke ℞	72	36	65·8	42·9	54·4	+ 0·8	2	0·51	?	55	48
	Hereford ℞	76	38	69·1	44·2	56·7	+ 1·9	2	0·39	−0·02	*	*
	Cirencester	70	38	65·4	44·1	54·8	+ 0·4	2	0·33	−0·17	62	56
	Oxford	72	43	66·3	47·9	57·1	+ 2·2	2	0·53	+0·13	61	55
5. ENGLAND, S.	London†	79	43	71·6	48·1	59·9	+ 3·5	1	0·35	−0·09	64	58
	Marlborough ℞	71	38	66·2	44·7	55·5	+ 2·2	2	0·50	+0·04	65	59
	Strathfield Turgiss ℞	77	37	70·0	42·0	56·0	+ 1·8	1	0·60	+0·26	*	*
	Dover	63	45	60·6	49·3	55·0	0·0	3	0·68	+0·22	*	*
	Hastings (St. Leonard's)	68	47	61·5	49·5	55·5	+ 0·9	3	1·04	+0·71	66	60
	Southampton	75	42	67·6	46·1	56·9	+ 1·9	2	0·69	?	78	71
	Hurst Castle	66	44	61·3	47·0	54·2	− 0·7	2	0·74	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	61	40	55·8	46·1	51·0	− 0·2	7	2·58	?	*	
	Glasgow	63	39	58·3	47·4	52·9	+ 1·5	3	1·25	+0·65	34	29
	Ardrossan	57	38	55·3	46·6	52·0	+ 0·4	3	1·72	+1·22	*	*
	Silloth (Cumberland)	64	36	60·1	45·9	53·0	− 0·2	3	0·42	0·00	51	44
	Douglas (Isle of Man)	63	35	57·3	44·8	51·1	− 0·4	3	0·46	+0·08	61	54
7. ENGLAND, N.W.	Barrow-in-Furness	60	47	57·7	48·6	53·2	− 0·2	2	0·09	?	*	*
	Stonyhurst	65	37	61·6	45·7	53·7	+ 0·4	2	0·28	−0·31	54	47
	Blackpool ℞	63	45	59·3	48·3	53·8	− 0·3	2	0·09	−0·31	65	57
	Manchester	67	39	63·1	44·2	53·7	− 0·5	2	0·13	−0·27	*	*
	Liverpool Obs? (Bidston)	65	46	62·0	49·4	55·7	+ 1·4	1	0·02	−0·37	*	*
	Llandudno ℞	65	43	62·3	48·3	55·3	+ 0·9	1	0·04	−0·34	64	57
	Holyhead	60	43	56·9	47·7	52·3	− 1·3	2	0·27	−0·09	*	*
8. ENGLAND, S.W.	Pembroke	57	47	55·1	49·0	52·1	− 1·7	2	0·27	−0·17	42	38
	Arlington (N. Devon)	68	39	60·7	44·4	52·6	− 1·3	2	0·39	?	*	*
	Cullompton ℞	71	39	66·1	43·4	54·8	− 0·4	2	0·22	?	52	47
	Falmouth	66	48	59·9	49·8	54·9	+ 0·4	3	0·24	−0·36	41	38
	Plymouth	68	43	63·4	47·7	55·6	+ 0·1	2	0·14	−0·27	55	50
	Prawle Point	64	43	59·4	47·4	53·4	− 0·2	1	0·24	?	*	*
9. IRELAND, N.	Londonderry	66	37	63·0	43·9	53·5	+ 0·7	4	1·07	+0·63	*	*
	Mullaghmore	61	48	57·7	49·9	53·8	+ 0·2	3	0·65	?	*	*
	Markree Castle	65	30	58·4	39·2	48·8	− 4·9	4	0·47	−0·14	40	35
	Brookeborough	66	32	61·0	41·4	51·2	− 2·4	3	0·98	?	*	*
	Armagh	66	38	61·1	45·8	53·5	0·0	4	0·94	+0·63	40	35
	Donaghadee	68	36	60·1	44·0	52·1	− 0·4	3	0·59	?	*	*
10. IRELAND, S.	Dublin	69	41	63·5	49·4	56·5	+ 2·8	2	0·06	−0·42	44	40
	Parsonstown	67	37	61·1	44·6	52·9	− 1·0	3	0·79	+0·26	30	27
	Roche's Point	63	40	59·4	46·1	52·8	− 2·1	3	0·78	+0·08	*	*
	Valencia	61	42	58·1	47·3	52·7	− 1·0	4	1·71	+1·09	29	26
	Foynes										*	*

Stations marked ℞ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 22.] WEEK ENDING MONDAY, JUNE 4, 1883. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861–80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866–75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	68	37	61	46	53	1 above.	2	1	3 less.	69	58
	2. ENGLAND, N.E.	73	40	62	46	54	1 above.	1	less than ½	4 less.	58	50
	3. ENGLAND, E.	76	38	67	46	56	1 above.	0	—	4 less.	75	67
	4. MID. COUNTIES	77	37	68	45	57	1 above.	0	—	5 less.	69	61
	5. ENGLAND, S.	78	38	67	47	57	2 above.	0	—	4 less.	64	57
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	73	40	61	47	54	1 above.	4	4	2 less.	59	50
	7. ENGLAND, N.W.	70	36	64	48	56	1 above.	1	1	3 less.	64	53
	8. ENGLAND, S.W.	75	36	63	49	56	1 above.	2	2	3 less.	69	53
	9. IRELAND, N.	73	37	62	47	54	0 (average).	4	4	1 less.	50	43
	10. IRELAND, S.	73	42	62	49	55	1 above.	3	2	3 less.	44	39

General Remarks.

Weather has been very fine and bright in nearly all parts of the Kingdom, and in the southern and eastern districts very dry.

Temperature has been about equal to the mean in "Ireland, N.", but in all other districts one or two degrees above it. The thermometer was highest during the last few days of the period, when it rose to 78° in "England, S." and 77° in the "Midland Counties", and to between 64° and 76° elsewhere. The minima, which were registered during the earlier part of the period, varied from 36° in "England, N.W." and "England, S.W.", to 42° in "Ireland, S."

Rainfall has been less than the mean in all districts.

Bright sunshine shows an increase in duration in nearly all places, the percentages ranging from 67 in "England, E." and 61 in the "Midland Counties", to 43 in "Ireland, N." and 39 in "Ireland, S."

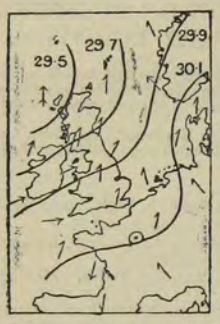
Depressions observed.—During the greater part of this week, the barometer was highest in the southern and eastern parts of our area, while some depressions were observed skirting our western and northern coasts. The winds were consequently southerly or south-westerly, and in the W. and N. occasionally blew freshly or strongly. Towards the close of the period, however, an anticyclone was formed over Scotland and the adjacent portion of the North Sea, while some disturbances appeared over France and the Bay of Biscay. Under the influence of these changes the wind in our Islands shifted to E. or N.E. and in most places blew freshly.

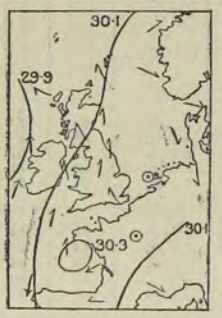
B 7582. 100 & 470.—6/83. Wt. 32. E. & S.

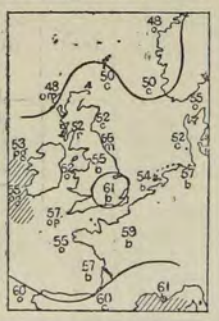
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending June 4, 1883.

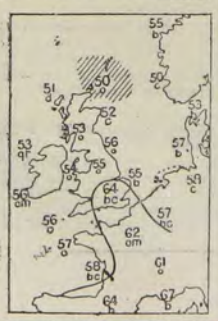
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Tuesday, May 29.

Weather unsettled and showery in the W., with some hail; generally fine elsewhere. Showers extending eastwards later.

Temperature fallen a little in W. and N.; readings ranging from 62° in London to 49° at Stornoway and 47° at Parsonstown. Highest maxima 69° in London and 68° at Cambridge.

Wind southerly or south-westerly: moderate in force in the E. and S., but strong in the N.W.

Sea high at Stornoway, rough off the W. of Ireland.

Barometer falling at all but our south-western and the Swedish stations. Highest pressures over France and Denmark, and lowest off our extreme N.W. coasts. Rise taking place generally later.

Wednesday, May 30.

Weather dull in the S. of Ireland and W. of France, with drizzling rain at Valencia; fine elsewhere. Rain subsequently falling at nearly all western stations.

Temperature fallen slightly except W.; readings ranging from 58° at Dover to 47° in the Shetlands. Highest maxima 67° at Cambridge, 66° at Loughborough, and 65° in London and at Oxford.

Wind light or moderate generally: westerly in E., but south-westerly or southerly in W. and south-easterly at Valencia. Becoming variable in E. later.

Sea rough at Scilly, moderate or slight elsewhere.

Barometer falling a little at Valencia and also in Denmark, but rising in all other localities. Anticyclone forming over Bay of Biscay, and lowest pressures found to northward of Scotland. Mercury falling subsequently at all Irish stations.

Thursday, May 31.

Weather cloudy and unsettled in W. and N., with rain in many places; fine in E. and S.

Temperature risen slightly; readings ranging from 61° in London to 48° at Stornoway. Highest maxima 71° at Loughborough, 70° at Cambridge and 69° in London.

Wind easterly in S.W. of France, south-westerly or southerly elsewhere; fresh or strong in force in W. of Ireland.

Sea rough at Valencia, moderate or smooth elsewhere.

Barometer falling a little on our western and northern coasts, rising in all other districts. Highest pressures still found over Bay of Biscay, but arm of comparatively high readings stretching north-eastwards across our southern coasts and the greater portion of the North Sea. Depressions moving in a northerly direction outside the Irish and Scotch coasts.

Friday, June 1.

Weather rainy in N.W. and dull in S.W.; generally fine elsewhere. Thunder occurring at Wick and Helder later.

Temperature risen slightly; readings ranging from 64° in London to 50° in the Shetlands. Highest maxima 71° in London and 70° at Cambridge.

Wind light and variable in France, south-westerly in Ireland, and southerly or south-easterly elsewhere. Veering to S.W. in S. later.

Sea rather rough at Sumburgh Head; moderate or smooth on all other parts of our coasts.

Barometer rising slightly in Scandinavia, falling elsewhere, pressure relatively high to the southward and eastward of our Islands, with an area of low readings off our N.W. coasts Recovery subsequently taking place in W.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, June 2.

Weather dull in Ireland and the N. of Scotland, with showers at Stornoway, fine elsewhere. Fine weather becoming general later.

Temperature changed irregularly; readings varying from 62° in the S.E. of England to 48° at Stornoway. Highest maxima 77° at Loughborough and Cambridge, 73° at York, and 72° in London.

Wind light or moderate from N.W. on our N. and E. coasts, and from N.E. in France, but light and variable in the W. and S. of our Islands. Easterly breezes appearing in S. later.

Sea moderate or smooth.

Barometer rising over the United Kingdom, but falling at most of the Continental stations. Areas of relatively high readings found over our W. and S.W. coasts, and also over Scandinavia, with low pressures to the northward of Scotland and southward of France.

Sunday, June 3.

Weather cloudy, with some rain, in the W. of Norway, but fine in all other parts of western Europe.

Temperature risen S., fallen elsewhere; readings ranging from 64° at Valencia and 63° in the S.E. of England to 48° in the Shetlands. Highest maxima 73° in London and 72° at Oxford and Cambridge.

Wind westerly in Scandinavia and the extreme N. of Scotland, north-easterly or easterly at all the more southern stations. Fresh or strong in force in the S. of England.

Sea moderate or smooth generally.

Barometer falling Sweden and France, rising elsewhere. Anticyclone, with readings above 30·3 ins, found over our N. and N.E. coasts, and lowest pressures over the Bay of Biscay. General fall taking place later.

Monday, June 4.

Weather dull in the S. of England and W. of France, with thunder at Biarritz, but continuing fine elsewhere.

Temperature fallen; readings ranging from 63° at Valencia to 48° at Stornoway. Highest maxima 76° in London, 73° at Valencia, and 72° at Oxford.

Wind moderate northerly on eastern shores of North Sea, and light south-easterly in E. of Scotland, but strong easterly or north-easterly on our more southern coasts. Veering to S.E. in W. later.

Sea rather rough in the Channel, slight or smooth elsewhere.

Barometer falling generally. Highest pressures still found over our N. and N.E. coasts, and lowest over the Bay of Biscay. Fall continuing all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	55	41	55·6	44·3	49·0	−0·1	3	0·29	−0·01	*	*
	Stornoway	55	37	53·9	42·4	48·2	−2·0	3	0·38	−0·27	54	45
	Wick	61	36	57·6	43·4	50·5	+0·6	5	0·43	+0·17	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	49	61·3	51·9	56·6	+1·2	5	0·16	−0·21	*	*
	Jersey (Noirmont)	66	48	61·9	50·0	56·0	−0·2	1	0·02	−0·38	71	65

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	63	37	60·1	45·9	53·0	+ 1·1	3	0·12	−0·27	*	*
	Aberdeen	63	38	60·3	43·7	52·0	+ 0·2	1	0·02	−0·39	69	58
	Leith	68	41	61·6	46·9	54·3	+ 1·1	3	0·24	−0·16	*	*
2. ENGLAND, N.E.	Alnwick Castle	65	43	60·3	46·0	53·2	+ 1·0	1	0·02	?	*	*
	Shields	65	41	60·4	45·6	53·0	+ 0·4	0	—	−0·40	*	*
	Durham	71	40	64·4	43·0	53·7	+ 0·8	1	0·02	−0·38	51	44
	Scarborough ℳ	68	46	62·0	47·6	54·8	+ 1·8	1	0·06	−0·39	*	*
	York	73	40	67·3	46·0	56·7	+ 1·8	1	0·10	−0·32	65	56
	Spurn Head	66	47	59·9	50·0	55·0	+ 1·4	0	—	?	*	*
3. ENGLAND, E.	Hillington ℳ	73	39	68·2	43·9	56·1	+ 1·5	0	—	−0·40	72	63
	Yarmouth	63	50	59·7	50·4	55·1	0·0	0	—	−0·45	*	*
	Geldeston	72	42	66·3	46·0	56·2	+ 0·9	0	—	−0·35	82	73
	Cambridge	76	41	70·4	44·9	57·7	+ 1·4	0	—	−0·39	72	64
	Rothamsted	72	38	68·6	43·1	55·9	− 0·2	1	0·01	−0·44	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	73	39	69·7	43·1	56·4	+ 1·2	0	—	−0·46	*	*
	Loughborough	77	41	69·6	46·9	58·3	+ 2·2	1	0·02	−0·42	*	*
	Leicester	74	42	68·8	46·5	57·7	+ 1·9	1	0·07	−0·45	63	55
	Birmingham (Oscott)	69	41	66·6	46·6	56·6	+ 1·1	1	0·03	−0·53	*	*
	Cheadle ℳ	68	40	64·3	45·5	54·9	+ 0·5	0	—	?	*	*
	Churchstoke ℳ	68	37	65·1	42·9	54·0	− 0·6	0	—	?	59	52
	Hereford ℳ	72	39	68·9	45·4	57·2	+ 1·3	0	—	−0·40	*	*
	Cirencester	72	37	67·6	44·7	56·2	− 0·2	0	—	−0·50	78	70
	Oxford	72	42	67·9	46·9	57·4	+ 1·4	1	0·01	−0·39	75	67
5. ENGLAND, S.	London†	76	47	70·7	48·6	59·7	+ 2·2	0	—	−0·47	57	51
	Marlborough ℳ	73	39	68·4	45·0	56·7	+ 2·4	1	0·01	−0·47	47	42
	Strathfield Turgiss ℳ	76	38	70·8	42·6	56·7	+ 1·5	0	—	−0·38	*	*
	Dover	66	47	63·1	52·0	57·6	+ 1·6	0	—	−0·45	*	*
	Hastings (St. Leonard's)	72	49	65·3	50·7	58·0	+ 2·5	0	—	−0·30	80	71
	Southampton	78	42	70·0	47·7	58·9	+ 2·8	0	—	?	71	63
	Hurst Castle	70	42	63·3	48·3	55·8	0·0	0	—	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	69	40	59·8	?47·6	?53·7	+ 1·7	4	0·91	?	*	*
	Glasgow	66	41	60·5	46·6	53·6	+ 1·2	4	0·33	−0·28	46	39
	Ardrossan	69	44	59·4	47·7	53·6	+ 1·1	3	0·32	−0·19	*	*
	Silloth (Cumberland)	73	41	64·1	47·0	55·6	+ 1·4	4	0·22	−0·20	67	57
	Douglas (Isle of Man)	66	40	59·5	46·7	53·1	+ 0·6	3	0·19	−0·20	63	54
7. ENGLAND, N.W.	Barrow-in-Furness	69	45	63·0	50·1	56·6	+ 2·2	1	0·01	?	*	*
	Stonyhurst	68	42	63·2	45·8	54·5	+ 0·3	1	0·18	−0·42	57	49
	Blackpool ℳ	68	36	63·2	46·9	55·1	+ 0·1	2	0·07	−0·33	68	59
	Manchester	67	41	63·4	45·7	54·6	− 0·6	1	0·25	−0·20	*	*
	Liverpool Obsy (Bidston)	70	44	64·6	50·0	57·3	+ 2·2	1	0·24	−0·26	*	*
	Llandudno ℳ	66	46	63·4	49·1	56·3	+ 0·7	1	0·02	−0·37	66	58
	Holyhead										*	*
8. ENGLAND, S.W.	Pembroke	67	49	59·3	50·9	55·1	+ 0·4	3	0·21	−0·19	79	70
	Arlington (N. Devon)	70	40	63·7	47·0	55·4	+ 0·4	2	0·29	?	*	*
	Cullompton ℳ	75	36	68·0	44·9	56·5	+ 0·4	0	—	?	59	53
	Falmouth	65	48	62·0	51·7	56·9	+ 1·5	3	0·29	−0·31	49	44
	Plymouth	73	44	65·6	50·9	58·3	+ 1·9	2	0·09	−0·31	51	46
	Prawle Point	68	44	61·1	49·3	55·2	+ 0·7	0	—	?	*	*
9. IRELAND, N.	Londonderry	73	38	63·8	45·5	54·7	+ 1·1	4	0·38	−0·18	*	*
	Mullaghmore	65	48	60·3	50·3	55·3	+ 0·8	4	0·72	?	*	*
	Markree Castle	69	38	62·5	45·3	53·9	− 0·7	4	0·62	−0·06	44	38
	Brookeborough	71	37	63·2	45·2	54·2	− 0·4	4	0·30	?	*	*
	Armagh	68	41	60·8	46·8	53·8	− 0·7	4	0·27	−0·03	55	47
	Lonaghadee	64	42	59·3	47·0	53·2	− 0·3	4	0·34	?	*	*
10. IRELAND, S.	Dublin	67	46	62·0	50·0	56·0	+ 1·4	3	0·09	−0·41	51	45
	Parsonstown	72	43	62·1	47·6	54·9	+ 0·1	3	0·10	−0·43	42	37
	Roche's Point	68	42	60·7	48·0	54·4	− 1·5	3	0·33	−0·32	*	*
	Valencia	73	43	62·7	49·6	56·2	+ 1·8	4	0·41	−0·21	40	35
	Foynes										*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

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Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 23.] WEEK ENDING MONDAY, JUNE 11, 1883. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the Jetterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	73	35	60	43	52	0 (average).	1	less than ½	4 less.	42	34
	2. ENGLAND, N.E.	74	38	58	46	52	1 below.	1	1	4 less.	20	17
	3. ENGLAND, E.	75	38	63	46	55	1 below.	1	less than ½	4 less.	54	47
	4. MID. COUNTIES	77	36	65	47	56	1 above.	3	5	0 (average).	36	31
	5. ENGLAND, S.	76	43	66	50	58	2 above.	2	3	1 less.	40	36
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	67	39	62	46	54	1 above.	1	1	4 less.	57	48
	7. ENGLAND, N.W.	70	40	63	46	55	0 (average)	1	1	4 less.	60	51
	8. ENGLAND, S.W.	76	43	62	51	57	2 above.	3	4	1 less.	42	37
	9. IRELAND, N.	74	39	62	48	55	1 above.	3	7	2 more.	50	45
	10. IRELAND, S.	72	43	64	50	57	2 above.	3	5	1 less.	57	49

General Remarks.

Weather over the United Kingdom this week has been fair generally, but thunderstorms have occurred, locally, in several districts, and the sky has been very cloudy at times.

Temperature has been very slightly below its normal value in the N.E. and E., and slightly above it in the W. The maximum readings reported have varied from 76° or 77° over the greater part of England, to only 67° in the W. of Scotland, while the minima have been as low as 35° in the E. of Scotland, 36° over our "Midland Counties", and from 38° to 43° elsewhere.

Rainfall has been considerably below the average in Scotland and the E. of England, but not much below it in the midland and southern districts. In the latter regions some stations have entirely escaped, but in others the fall (during thundery weather) has been considerable.

Bright sunshine has decreased; in none of the districts does the amount recorded come to more than 51 % of the possible duration at this season, and in the N.E. of England the value is only 17 %.

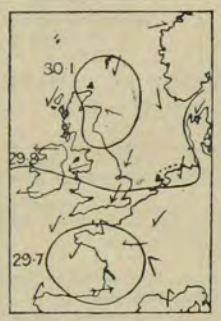
Depressions observed.—These have been very shallow, and their movements have been irregular. They have consisted chiefly of those shallow local disturbances which commonly accompany thundery weather, and have prevailed more over the S.W. and S. parts of the country than elsewhere.

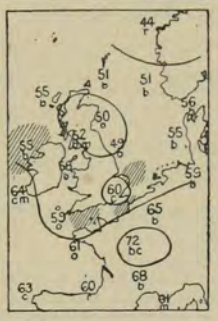
R 7715. 100 & 470.—6/83. Wt. 32. E. & S.

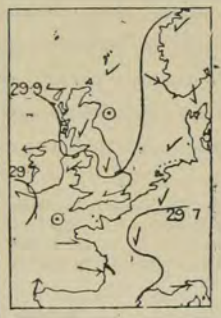
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending June 11, 1883.

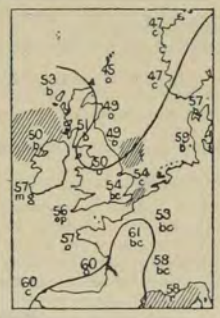
Synoptic Weather Charts.—8 a.m.

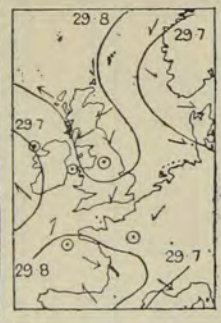
BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

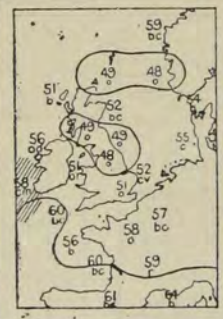


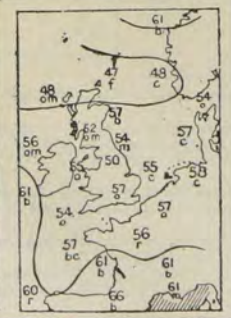












Weather during the 24 hours succeeding the date of the Charts.

Tuesday, June 5.

Weather overcast on our N.E. and S.W. coasts; generally fine elsewhere. Thunderstorms occurring at some of the south-western stations in evening.

Temperature risen a little in most places; readings ranging from 64° at Valencia to 48° at Nairn. Highest maxima 75° in London and 72° at Parsonstown; thermometer at Shields not exceeding 51°.

Wind moderate northerly on eastern shores of North Sea, and light south-easterly in Scotland, but fresh or strong from N.E. or E. elsewhere. North-easterly wind moderating later.

Sea rather rough on exposed parts of our S. and S.E. coasts.

Barometer falling generally—most in S. Anticyclone lying off the E. of Scotland, and large area of low pressure over the Bay of Biscay and W. of France, the intervening gradients being rather steep. Rise taking place at the western French stations later.

Wednesday, June 6.

Weather dull on our N.E. and S.W. coasts, with showers at Roche's Point and Scilly. Rain falling later at most of the western and southern stations.

Temperature fallen most places; readings ranging from 57° at Valencia to 45° in the Shetlands. Highest maximum 70° in London and at Cambridge.

Wind northerly on eastern shores of North Sea and westerly in the W. of France, but varying between N.E. and S.E. in our Islands.

Sea rather rough at Spurn Head and Mullaghmore, moderate or slight elsewhere.

Barometer rising in the W. of France and extreme S. of England, falling elsewhere. Anticyclone in the N. gradually breaking up, but new one forming over the Bay of Biscay. Areas of low pressure over the Baltic, the E. of France, and S. of Ireland.

Thursday, June 7.

Weather fine in the W. of France, as well as on our S.W. coasts, cloudy or overcast elsewhere, with rain at Holyhead and Oxford, and fog at Prawle Point and Jersey.

Temperature changed irregularly; readings ranging from 60° at Scilly to 46° at Nairn. Maxima very low generally, thermometer in London not exceeding 54°.

Wind north-westerly on the eastern shores of the North Sea, as well as in the W. of France, but still varying between N.E. and S.E. over our Islands.

Sea rather rough at Valencia, moderate or smooth elsewhere.

Barometer falling generally. Readings highest over the N. of Scandinavia, with areas of relatively low pressure over the W. of Ireland and S. of Sweden. No important change later.

Friday, June 8.

Weather varying greatly in different parts of the country, but cloudy at the majority of stations, with mist or fog in some places. Thunderstorms occurring later in many parts of England and Ireland.

Temperature risen slightly; readings ranging from 61° at Valencia and 60° at Leith to 47° in the Shetlands. Highest maxima 73° at Leith and 68° at Cambridge and in London.

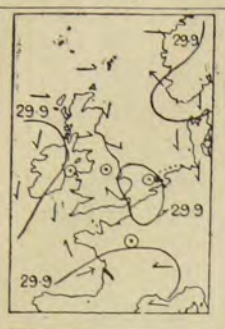
Wind moderate westerly or north-westerly in N., but light easterly or south-easterly in S., with variable airs in the intermediate districts.

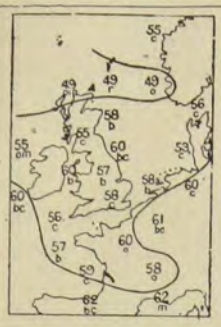
Sea slight or smooth on all our coasts.

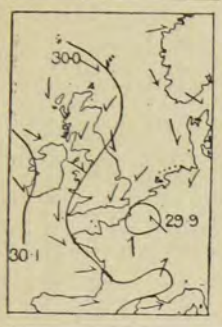
Barometer falling in extreme N. but rising slightly elsewhere. Highest pressures over the N. of Scandinavia, with areas of relatively low readings off the W. of Norway and S.W. of England.

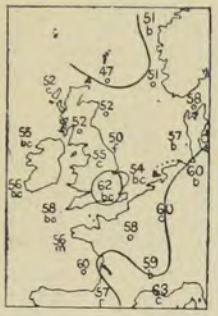
Synoptic Weather Charts.—8 a.m.

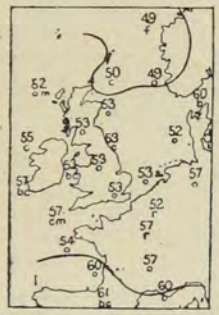
BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.











Weather during the 24 hours succeeding the date of the Charts.

Saturday, June 9.

Weather again varying greatly in different districts, but upon the whole fair and dry. Thunderstorms occurring in some parts of England later.

Temperature risen in most parts of our Islands; readings ranging from 61° at Leith and Cambridge to 49° in the Shetlands and Hebrides. Highest maxima 74° in London and at York and 73° at Cambridge.

Wind westerly in extreme N. and easterly in S., but very variable elsewhere.

Sea smooth on almost all coasts.

Barometer rising generally. Pressure exceedingly uniform and very irregularly distributed. Rise continuing all day.

Sunday, June 10.

Weather fine in the W. and S. of our Islands, cloudy or overcast elsewhere, with fog on the E. coast, and showers in the S.E. Thunderstorms again experienced in many parts of England.

Temperature fallen generally—quickly in the N.E.; readings ranging from 62° in London to 47° at Sumburgh Head.

Wind north-easterly in the S. and E., north-westerly or northerly elsewhere; light or moderate in force generally.

Sea moderate or smooth on all our coasts.

Barometer rising at nearly all stations, and area of high pressure appearing off the W. of Ireland, with lowest readings over the S. of Sweden. Rise continuing all day.

Monday, June 11.

Weather fine in Ireland, cloudy or overcast elsewhere, with mist at several of the south-western stations, and rain at Yarmouth. Rain falling in Scotland towards night, and thunder heard at Leith.

Temperature fallen over central and south-eastern England, little changed elsewhere; readings ranging from 57° at Valencia, Scilly, and Prawle Point, to 50° at Sumburgh Head, Wick, and Spurn Head.

Wind westerly in the extreme N., but northerly or north-easterly on all the more southern coasts. Backing to S.W. in Scotland later.

Sea moderate or smooth generally.

Barometer rising at all but the Swedish stations. Highest pressure now covering the whole of Ireland, and lowest readings found over the Baltic. Slight fall subsequently taking place in Scotland.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	54	40	51·6	43·6	47·6	−1·2	4	0·31	+0·01	*	*
	Stornoway	61	43	55·7	44·3	50·0	+0·1	2	0·17	−0·51	53	43
	Wick	59	40	54·9	44·7	49·8	+0·1	1	0·19	−0·12	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	51	60·9	53·0	57·0	+1·8	2	0·41	−0·03	*	*
	Jersey (Noirmont)	65	49	61·4	51·1	56·3	+0·4	3	0·71	−0·35	38	34

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow :

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	64	35	59·6	43·1	51·4	− 0·2	1	0·04	−0·34	*	*
	Aberdeen	62	37	57·7	43·9	50·8	− 0·6	1	0·05	−0·36	42	34
	Leith	73	37	62·1	43·3	52·7	− 0·3	1	0·02	−0·40	*	*
2. ENGLAND, N.E.	Alnwick Castle	63	38	56·7	46·0	51·4	− 0·6	1	0·04	?	*	*
	Shields	66	39	55·7	44·7	50·2	− 2·0	2	0·06	−0·33	*	*
	Durham	73	38	58·8	43·3	51·1	− 1·4	4	0·20	−0·22	20	17
	Scarborough ℳ	63	46	55·8	47·8	51·8	− 1·0	1	0·01	−0·44	*	*
	York	74	43	63·7	46·0	54·9	+ 0·1	0	—	−0·50		
	Spurn Head	59	47	55·3	48·4	51·9	− 1·4	0	—	?	*	*
3. ENGLAND, E.	Hillington ℳ	75	41	65·0	44·9	55·0	+ 0·7	1	0·01	−0·41	56	48
	Yarmouth	61	46	57·0	49·0	53·0	− 1·8	1	0 01	−0·47	*	*
	Geldeston	67	38	60·0	45·8	52·9	− 2·3	0	—	−0·38	58	51
	Cambridge	73	42	67·6	46·3	57·0	+ 0·8	2	0·04	−0·36	48	42
	Rothamsted	70	44	64·4	45·6	55·0	− 0·8	2	0·10	−0·38	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	72	38	64·6	45·6	55·1	+ 0·2	1	0·30	−0·20	*	*
	Loughborough	72	44	66·1	47·4	56·8	+ 1·0	2	0·05	−0·50	*	*
	Leicester	74	44	65·8	47·4	56·6	+ 1·3	4	0·79	+0·24	35	30
	Birmingham (Oscott)	71	43	64·3	46·1	55·2	0·0	2	0·08	−0·50	*	*
	Cheadle ℳ	67	41	61·6	45·3	53·5	− 0·7	2	0·18	?	*	*
	Churchstoke ℳ	71	36	65·0	43·7	54·4	+ 0·1	4	0·31	?	42	36
	Hereford ℳ	71	41	67·2	46·7	57·0	+ 1·4	5	1·62	+1·20	*	*
	Cirencester	77	41	66·3	47·7	57·0	+ 1·9	5	0·67	+0·15	29	25
	Oxford	69	44	65·1	49·0	57·1	+ 1·2	3	0·48	+0·01	37	32
5. ENGLAND, S.	London†	75	45	67·4	48·9	58·2	+ 1·0	0	—	−0·49	35	31
	Marlborough ℳ	70	43	65·7	48·3	57·0	+ 3·0	4	0·18	−0·29	35	31
	Strathfield Turgiss ℳ	75	44	70·5	48·2	59·4	+ 4·5	3	0·42	+0·02	*	*
	Dover	63	49	59·9	52·4	56·2	+ 0·5	2	0·10	−0·35	*	*
	Hastings (St. Leonard's)	68	48	64·4	51·2	57·8	+ 2·5	2	0·34	+0·03	48	42
	Southampton	76	46	66·9	51·1	59·0	+ 3·2	3	0·28	?	43	38
	Hurst Castle	71	48	64·3	51·0	57·7	+ 2·2	2	0·72	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	67	43	61·5	46·0	53·8	+ 2·0	2	0·42	?	*	*
	Glasgow	65	41	60·8	45·9	53·4	+ 1·3	1	0·04	−0·61	48	40
	Ardrossan	63	41	60·7	45·1	52·9	+ 0·6	1	0·13	−0·39	*	*
	Silloth (Cumberland)	67	39	62·2	43·7	53·0	− 0·9	1	0·01	−0·42	54	45
	Douglas (Isle of Man)	65	42	62·4	47·1	54·8	+ 2·4	1	0·12	−0·26	68	58
7. ENGLAND, N.W.	Barrow-in-Furness	70	42	64·7	47·9	56·3	+ 2·1	1	0·01	?	*	*
	Stonyhurst	68	43	64·3	45·2	54·8	+ 0·9	1	0·17	−0·49	49	42
	Blackpool ℳ	68	40	62·0	44·7	53·4	− 1·3	1	0·05	−0·37	63	54
	Manchester	68	41	63·0	44·4	53·7	− 1·2	2	0·57	+0·04	*	*
	Liverpool Obs? (Bidston)	69	41	62·3	47·0	54·7	− 0·3	0	—	−0·43	*	*
	Llandudno ℳ	69	45	62·7	49·1	55·9	+ 0·9	1	0·02	−0·36	67	58
	Holyhead										*	*
8. ENGLAND, S.W.	Pembroke	67	48	60·1	50·0	55·1	+ 0·7	2	0·70	−0·31	67	59
	Arlington (N. Devon)	70	43	62·7	48·1	55·4	+ 0·7	2	0·32	?	*	*
	Cullompton ℳ	76	46	68·2	49·5	58·9	+ 3·1	3	0·39	?	27	24
	Falmouth	68	51	63·1	53·1	58·1	+ 3·3	4	0·15	−0·45	40	36
	Plymouth	75	51	64·5	53·4	59·0	+ 2·9	3	0·14	−0·26	34	30
	Prawle Point	69	46	61·1	49·0	55·6	+ 1·4	3	0·46	?	*	*
9. IRELAND, N.	Londonderry	74	44	64·9	47·2	56·1	+ 2·7	3	0·08	−0·40	*	*
	Mullaghmore	68	48	61·1	52·7	56·9	+ 2·7	2	0·23	?	*	*
	Markree Castle	71	39	64·2	45·9	55·1	+ 0·8	4	1·95	+1·22	53	45
	Brookeborough	71	40	63·8	46·8	55·3	+ 1·0	3	0·84	+0·11		
	Armagh	65	43	62·0	48·5	55·3	+ 1·2	5	1·16	+0·84	46	40
	Donaghadee	61	45	57·9	47·7	52·8	− 0·4	1	0·03	?	*	*
10. IRELAND, S.	Dublin	63	48	61·3	50·1	55·7	+ 1·4	3	0·39	−0·16	48	41
	Parsonstown	72	43	66·1	48·4	57·3	+ 2·8	2	0·30	−0·20	53	46
	Roche's Point	69	47	63·9	50·7	57·3	+ 1·6	3	1·20	+0·69	*	*
	Valencia	69	47	62·9	51·3	57·1	+ 3·0	2	0·09	−0·55	70	61
	Foynes										*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 24.] WEEK ENDING MONDAY, JUNE 18, 1883. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861–80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	69	40	61	46	54	1 below.	4	3	1 less.	37	30
	2. ENGLAND, N.E.	76	42	63	49	55	1 below.	5	6	1 more.	23	19
	3. ENGLAND, E.	75	37	64	47	55	3 below.	4	11	6 more.	36	31
	4. MID. COUNTIES	76	38	64	46	55	4 below.	4	10	5 more.	46	39
	5. ENGLAND, S.	76	37	65	47	56	2 below.	3	2	2 less.	54	47
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	66	37	59	47	53	3 below.	4	3	2 less.	41	34
	7. ENGLAND, N.W.	69	41	60	49	54	3 below.	4	4	2 less.	41	35
	8. ENGLAND, S.W.	76	38	62	48	55	3 below.	5	4	1 less.	73	65
	9. IRELAND, N.	66	40	58	48	54	3 below.	6	6	0 (average).	34	29
	10. IRELAND, S.	69	43	61	48	55	3 below.	5	6	0 (average).	44	38

General Remarks.

Weather was generally fine and warm at the commencement of the period, but afterwards became dull, cold, and showery, while in many parts of England thunderstorms were experienced. On the 15th steady rain fell for several hours over our "Midland Counties."

Temperature has been below the mean in all districts, the deficit in Ireland being 3° and in the major part of Great Britain 3° or 4°. The maxima, which were registered during the early part of the period, varied from 76° in most of the English districts, to 66° in "Scotland, W." and "Ireland, N." The minima were recorded, with few exceptions, on the 17th or 18th, and were as low as 37° in "England, E.", "England, S.", and "Scotland, W.", and from 38° to 43° elsewhere.

Rainfall has been more than the mean over north-eastern, eastern, and central England, and about equal to the mean in Ireland, but in Scotland and the remaining parts of England the fall has been slight.

Bright sunshine shows a considerable increase in duration over southern and south-western England, but a decrease in most other districts. The percentages of possible duration varied from 19 in "England, N.E." to 47 in "England, S." and 65 in "England, S.W."

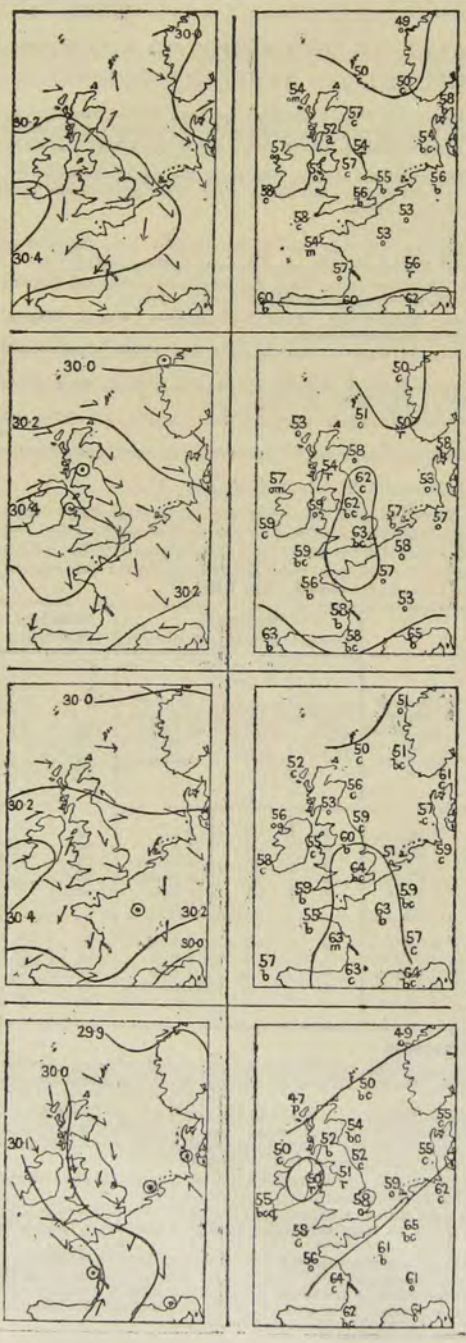
Depressions observed.—During the earlier part of this period the barometer was high over Ireland and the W. of England, and lowest over Scandinavia. As the week advanced, however, pressure decreased quickly over the North Sea and in its immediate neighbourhood, and a well defined depression, which subsequently moved northwards, was formed a little to the northward of the Dutch coast, while some shallow thunderstorm depressions were shown over England and the N. of France. The wind, which was generally light or moderate in force, blew from between N. and W. on all our coasts.

R 7807. 100 & 470.—6/83. Wt. 32. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending June 18, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, June 12.

Weather cloudy in France and also on on our N.W. coasts, but generally fine elsewhere. Rain falling at all our northern stations later.

Temperature risen slightly; readings ranging from 63° at Prawle Point to 50° in the Shetlands. Highest maxima 73° at Cambridge and in London, and 70° at Loughborough.

Wind north-easterly at our southern and the French stations, westerly or north-westerly elsewhere; light or moderate in force generally.

Sea moderate or smooth.

Barometer falling slightly in the extreme N. of Scotland, rising elsewhere. Anticyclone (with readings above 30·4 ins.) lying off our S.W. coasts, and relatively low pressures found over Scandinavia and to the northward of Scotland.

Wednesday, June 13.

Weather dull in the W. and N.W., with showers at Skudesnaes and Ardrossan; fine elsewhere. Rain subsequently falling in N. and E. generally, and lightning seen at Cambridge.

Temperature again risen slightly; readings ranging from 65° at Prawle Point to 51° in the Shetlands. Highest maxima 76° at York and Loughborough, 75° at Cambridge, and 74° in London.

Wind north-easterly in the W. of France, north-westerly or northerly elsewhere; light or moderate in force at all stations.

Sea slight or smooth.

Barometer rising generally. Central area of anticyclone now covering the whole of our W. and S.W. coasts, and readings lowest over the N. of Scandinavia. Slight fall taking place over our northern districts later.

Thursday, June 14.

Weather cloudy at most of the northern and some of the eastern stations, but fine in the S. and S.W. Rain falling later on all but our extreme southern coasts. Lightning seen at Yarmouth at night.

Temperature fallen a little; readings ranging from 65° at Prawle Point to 50° in the Shetlands. Highest maxima 75° in London and at Cambridge and 72° at Loughborough.

Wind westerly in N., but north-westerly or northerly elsewhere; light or moderate in force generally.

Sea moderate or smooth.

Barometer falling at all but the Swedish stations. Area of highest pressure receding to the S. of Ireland. Lowest readings over Scandinavia, but shallow disturbances subsequently forming over central England.

Friday, June 15.

Weather cloudy or overcast at all but our western and northern stations, with rain over central and north-eastern England. Steady rain continuing over the midland counties all day and showers falling in most other localities.

Temperature fallen several degrees; readings ranging from 58° at Leith, Scilly, and in London, to 47° in the Hebrides.

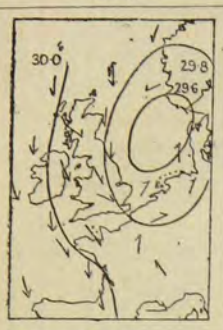
Wind northerly or north-westerly; light in E., fresh or strong in W.

Sea rather rough on our extreme S.W. coasts, moderate or slight elsewhere.

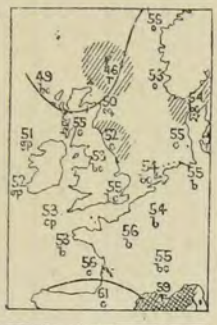
Barometer falling generally. Readings still highest to the south-westward of our Islands, and lowest over Scandinavia, but large area of relatively low pressure found over the North Sea and our eastern coasts. Well-defined depression forming over North Sea later.

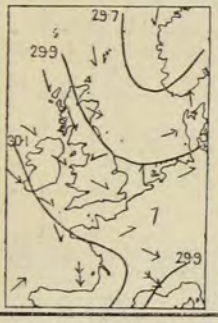
Synoptic Weather Charts.—8 a.m.

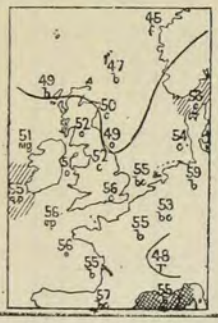
BAROMETER AND WIND.



CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, June 16.

Weather dull and rainy on our E. coasts, and showery in many other parts of the kingdom.

Temperature again fallen; readings ranging from 54° at Scilly to 48° at some of our eastern stations, and 46° at Stornoway. Maxima below 60° in most places, and below 55° on the N.E. coast of England.

Wind south-westerly in the Netherlands and N. Germany, and south-easterly or easterly in Scandinavia, but northerly or north-westerly elsewhere; fresh or strong in force generally.

Sea rather rough on many exposed parts of our coasts.

Barometer rising a little in the W. and S., falling elsewhere. Readings highest off the S. W. of Ireland, and large depression lying over the North Sea. Depression moving slowly northward later.

Sunday, June 17.

Weather cloudy and showery in W. and N., generally fine elsewhere. Showers extending to most parts of the country later.

Temperature risen a little at all but the extreme northern stations; readings ranging from 57° at Dover to 46° in the Shetlands. Maxima again below 60° in most places.

Wind south-westerly or southerly on the eastern shores of the North Sea, but north-westerly in our Islands and France; strong in force in the N. and E. of Scotland.

Sea rather rough at Sumburgh Head and Shields, moderate or slight elsewhere.

Barometer falling in Scandinavia and the extreme N. of Scotland, rising elsewhere. Highest pressure still shown off our S.W. coasts, and depression of previous day found off the W. of Norway. Rise of barometer taking place in N. later.

Monday, June 18.

Weather cloudy and showery in the W. and S.W., fine elsewhere. Slight showers subsequently falling in most localities.

Temperature risen a little; readings ranging from 58° at Hurst Castle to 47° in the Shetlands.

Wind still south-westerly or southerly on the eastern shores of the North Sea, but north-westerly over our Islands and France. South-easterly breezes setting in on our E. coast later.

Sea rather rough at Valencia, moderate or smooth elsewhere.

Barometer falling a little on our S.W. coasts, but rising at all the more northern and eastern stations. Depression shown over W. of Norway on previous day filling up. Slight fall taking place over the S.E. of England later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⇒ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	56	40	53·3	44·0	48·7	−2·9	4	0·86	+0·56	*	*
	Stornoway	58	41	54·1	44·4	49·3	−3·5	6	0·47	−0·23	33	27
	Wick	62	42	58·7	45·9	52·3	−0·5	4	0·33	−0·02	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	48	59·4	52·1	55·8	−1·9	5	0·34	−0·19	*	*
	Jersey (Noirmont)	69	45	62·4	50·0	56·2	−2·3	1	0·01	−0·32	78	70

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	69	43	59·9	46·9	53·4	− 1·5	5	0·38	−0·02	*	*
	Aberdeen	69	40	60·3	45·0	52·7	− 2·2	5	0·43	+0·03	37	30
	Leith	67	44	64·1	47·1	55·6	− 0·6	2	0·12	−0·31	*	*
2. ENGLAND, N.E.	Alnwick Castle	66	45	59·0	48·3	53·7	− 1·5	6	0·80	?	*	*
	Shields	68	44	60·3	47·3	53·8	− 1·8	6	0·40	0·00	*	*
	Durham	70	43	62·4	49·6	56·0	− 0·1	6	0·40	−0·01	23	19
	Scarborough ⚓	69	45	60·6	49·3	55·0	− 0·8	4	0·52	+0·07	*	*
	York	76	42	64·6	48·0	56·3	− 1·6	5	0·52	−0·06	*	*
	Spurn Head	65	47	59·1	50·9	55·0	− 1·5	4	0·70	?		
3. ENGLAND, E.	Hillington ⚓	75	37	65·5	46·1	55·8	− 1·9	5	2·47	+2·03	35	30
	Yarmouth	64	43	58·6	48·9	53·8	− 4·0	6	0·65	+0·15	*	*
	Geldeston	70	41	62·6	46·3	54·5	− 3·8	5	1·27	+0·77	28	24
	Cambridge	75	38	67·0	47·3	57·2	− 2·4	3	0·52	+0·08	44	38
	Rothamsted	74	37	65·9	45·2	55·6	− 4·2	3	0·59	+0·09	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	76	43	63·4	47·0	55·2	− 3·0	5	1·50	+0·96	*	*
	Loughborough	76	44	64·7	47·9	56·3	− 3·3	3	1·35	+0·75	*	*
	Leicester	76	41	66·2	46·7	56·5	− 3·1	2	1·41	+0·81	36	31
	Birmingham (Oscott) ⚓	73	39	63·8	46·6	55·2	− 3·7	3	1·41	+0·81	*	*
	Cheadle ⚓	70	40	60·9	44·5	52·7	− 4·8	3	0·99	?	*	*
	Churchstoke ⚓	71	38	61·7	43·9	52·8	− 4·8	4	0·89	?	43	37
	Hereford ⚓	75	39	65·6	45·6	55·6	− 3·3	4	0·44	+0·04	*	*
	Cirencester	72	38	62·7	45·0	53·9	− 4·3	4	0·52	−0·03	53	46
	Oxford	73	41	64·0	48·0	56·0	− 3·2	4	0·55	+0·09	50	43
5. ENGLAND, S.	London†	75	40	67·6	47·6	57·6	− 3·3	2	0·20	−0·30	35	31
	Marlborough ⚓	73	37	65·7	44·2	55·0	− 2·4	4	0·24	−0·21	49	43
	Strathfield Turgiss ⚓	76	37	68·1	44·1	56·1	− 2·2	4	0·30	−0·10	*	*
	Dover	68	45	62·6	50·6	56·6	− 2·2	5	0·30	−0·13	*	*
	Hastings (St. Leonard's)	71	43	63·3	49·3	56·3	− 2·1	1	0·05	−0·25	65	57
	Southampton	75	41	67·9	47·6	57·8	− 1·3	2	0·28	?	65	57
	Hurst Castle	69	43	64·1	47·3	55·7	− 2·8	4	0·29	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	58	44	55·9	46·1	51·0	− 3·7	3	0·22	?	*	*
	Glasgow	63	42	59·4	46·4	52·9	− 2·5	6	0·25	−0·45	30	25
	Ardrossan	59	41	57·6	46·3	52·0	− 3·5	5	0·35	−0·16	*	*
	Silloth (Cumberland)	65	37	62·7	45·9	54·3	− 2·8	3	0·30	−0·11	36	30
	Douglas (Isle of Man)	66	44	60·5	47·3	53·9	− 1·6	3	0·16	−0·24	56	47
7. ENGLAND, N.W.	Barrow-in-Furness	63	44	59·9	49·7	54·8	− 2·4	4	0·17	?	*	*
	Stonyhurst	69	43	61·3	48·5	54·9	− 1·9	3	0·73	+0·03	39	33
	Blackpool ⚓	61	45	58·5	50·4	54·5	− 3·2	3	0·17	−0·28	42	36
	Manchester	69	41	60·5	45·2	52·9	− 5·3	4	0·71	+0·10	*	*
	Liverpool Obsy (Bidston)	64	46	58·9	50·4	54·7	− 3·4	4	0·23	−0·25	*	*
	Llandudno ⚓											
	Holyhead										*	*
8. ENGLAND, S.W.	Pembroke	? 61	46	?57·7	?49·3	?53·5	?− 3·8	5	0·40	+0·01	72	63
	Arlington (N. Devon)	69	41	60·6	45·1	52·9	− 5·0	5	0·63	?	*	*
	Cullompton ⚓	76	38	66·5	43·7	55·1	− 3·6	4	0·35	?	66	58
	Falmouth	70	47	62·2	50·7	56·5	− 1·6	5	0·31	−0·29	80	71
	Plymouth	74	42	66·5	50·5	58·5	− 0·3	5	0·38	−0·02	73	66
	Prawle Point	70	43	64·3	47·7	56·0	− 0·9	3	0·16	?	*	*
9. IRELAND, N.	Londonderry	64	44	59·4	48·1	53·8	− 2·6	7	0·52	+0·02	*	*
	Mullaghmore	61	47	57·9	51·3	54·6	− 2·5	5	0·45	?	*	*
	Markree Castle	65	43	58·9	47·1	53·0	− 4·3	6	1·12	+0·38	33	28
	Brookeborough	65	40	59·7	46·3	53·0	− 4·7	5	0·48	?	*	*
	Armagh	66	45	60·5	48·5	54·5	− 3·0	6	0·33	−0·03	35	30
	Donaghadee	66	44	60·1	48·3	54·2	− 2·1	4	0·46	?	*	*
10. IRELAND, S.	Dublin	69	44	62·1	49·9	56·0	− 1·3	5	0·66	+0·06	35	30
	Parsonstown	67	43	61·7	46·0	53·9	− 3·5	5	0·31	−0·18	46	39
	Roche's Point	67	46	61·7	48·4	55·1	− 3·8	4	0·71	+0·14	*	*
	Valencia	65	43	60·6	48·3	54·5	− 2·1	4	0·70	+0·02	51	44
	Foynes	63	45	59·3	47·3	53·3	− 3·4	5	0·43	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

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Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

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The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

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2. ENGLAND, N.E.—Alnwick Castle Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	DISTRICTS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	67	35	60	46	53	4 below.	4	7	3 more.	33	27
	2. ENGLAND, N.E.	73	37	62	48	55	2 below.	4	12	7 more.	30	25
	3. ENGLAND, E.	74	42	65	51	58	2 below.	5	17	12 more.	33	28
	4. MID. COUNTIES	76	41	63	48	56	4 below.	5	12	7 more.	24	21
	5. ENGLAND, S.	75	38	64	51	58	2 below.	5	5	0 (average).	33	29
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	67	40	60	47	54	3 below.	5	13	8 more.	29	25
	7. ENGLAND, N.W.	69	41	62	50	56	3 below.	6	16	10 more.	28	24
	8. ENGLAND, S.W.	68	39	60	49	55	5 below.	6	11	7 more.	23	21
	9. IRELAND, N.	68	39	61	47	54	4 below.	5	5	0 (average).	29	25
	10. IRELAND, S.	66	41	61	49	55	4 below.	5	7	1 less.	30	26

General Remarks.

Weather this week has been cloudy and unsettled. Very heavy rains have fallen in nearly all parts of Great Britain and over England sharp thunderstorms have been experienced. A waterspout was observed in the N. of London (Upper Clapton) at 3.45 P.M. on the 19th.

Temperature has again been below the mean in all districts, the deficit varying from 2° over southern, eastern, and north-eastern England, and from 3° to 4° in the "Midland Counties", "England N.W.", and over Ireland and Scotland, to as much as 5° in "England, S.W." The maxima were recorded towards the close of the period; they ranged from 66° in "Ireland, S." and 67° in Scotland, to 75° in "England, S." and 76° in the "Midland Counties." The minima, which were registered during the earlier part of the period, varied from 35° in "Scotland, E.", 37° in "England, N.E.", and 38° in "England, S.", to 42° in "England, E."

Rainfall has been slightly less than the mean in "Ireland S.", but about its normal value in "Ireland, N." and "England, S.", while in all other districts the fall has been considerably in excess.

Bright sunshine shows a decided decrease in nearly all parts of the Kingdom, the percentages of possible duration varying from 21 in "England, S.W." and the "Midland Counties", to 29 in "England, S."

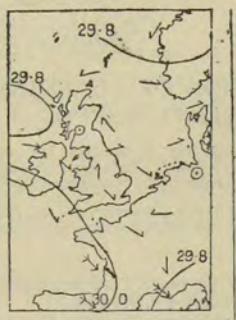
Depressions observed.—During this period, barometric pressure over our Islands and the N. of France has been disturbed by several "thunderstorm" depressions, while over the N. of Scandinavia and the S.W. of France the barometer has been comparatively high. The winds, which have been light or moderate in force, have varied greatly in direction. At the commencement of the period they circulated round a depression which travelled south-south-eastwards over England,—being easterly at all the more northern stations, northerly in the W., and westerly in the S. The easterly wind subsequently reached our southern coasts, but by the 22nd southerly to south-westerly breezes had become very general over England, whence they extended with but slight variations to the other parts of the Kingdom.

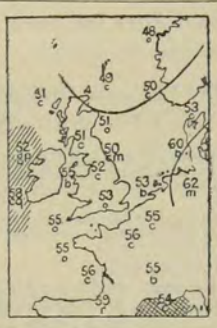
R 7886. 100 & 470.—6/83. Wt. 32. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending June 25, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Tuesday, June 19.

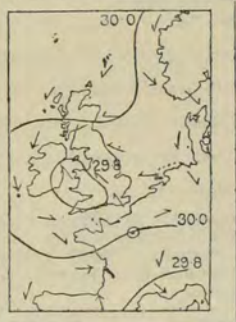
Weather fair in the N., but becoming cloudy elsewhere, with a slight fall of rain in most places, and a considerable fall at some western stations.

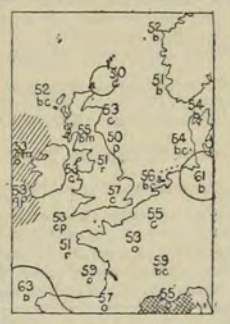
Temperature little changed on the whole, but the day maxima low, the highest over England being 66°, in London.

Wind very light from S.E. in the N., moderate from W. and N.W. elsewhere, and subsequently backing to S.W. over England.

Sea rather rough in the far W.

Barometer highest over Bay of Biscay and to south-westward of our Islands, lowest in N. of Norway. Shallow, but well-formed, depression appearing off the W. of Scotland, and moving south-eastwards.





Wednesday, June 20.

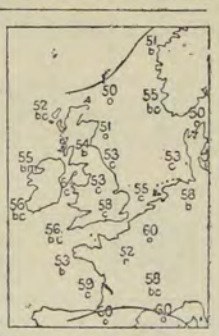
Weather clearing up in N., dull and showery elsewhere. Fall of rain very heavy at Oxford.

Temperature low again in all parts of our Islands, much higher in Sweden. Highest maxima in England 60° to 68°, but 75° recorded at Hernösand.

Wind backing to E. and N.E. over the northern parts of the Kingdom, but veering to W. in the south, and to N.W. and N. in Ireland. Force moderate to fresh.

Sea still rough off the W. of Ireland.

Barometer rising in the north, falling in S.W. and S., but the rise subsequently spreading even to our most southern counties. Yesterday's depression now found over our south-western counties, and apparently filling up slowly.



Thursday, June 21.

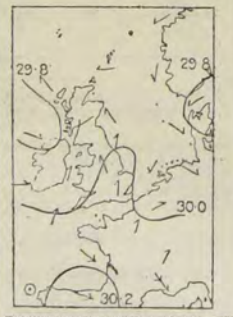
Weather at 8 A.M. rainy over our south-eastern counties; fair generally elsewhere, but subsequently becoming rather showery except in Scotland. Rainfall again heavy both at Oxford and Cambridge, where thunderstorms occurred.

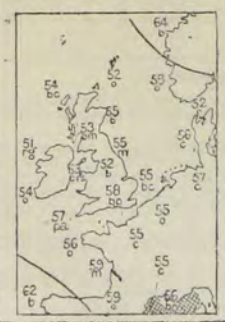
Temperature risen slightly in the N., not materially changed elsewhere. Maxima over England 60° to 66°.

Wind easterly to north-easterly in most places, light to moderate in force; subsequently becoming light and variable in Ireland.

Sea moderate in the W., smooth or nearly so elsewhere.

Barometer becoming unsteady and inclined to fall generally; yesterday's depression now over Belgium; very shallow subsidiary forming in the N. of Ireland later.





Friday, June 22.

Weather at first fine and bright over England, dull and wet in Ireland. Showers falling subsequently in most places, but not heavily.

Temperature changing little and irregularly; the maxima over England varying from 60° to 67°.

Wind north-westerly to westerly in Ireland, south-easterly in Scotland, and southerly to south-westerly over England; light to moderate at first, but subsequently freshening in the N.

Sea moderate to smooth.

Barometer fallen since 21st—most in Ireland—but subsequently beginning to rise again. New depression off the W. of Scotland and another over the Baltic; the former subsequently dispersing.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, June 23.

Weather at first dull and showery in the W., fine elsewhere. Showers subsequently spreading to all but our eastern counties.

Temperature risen decidedly over England where the maxima in several places ranged from 70° to 73°.

Wind very light and variable over our eastern counties, moderate southerly and south-westerly elsewhere.

Sea rough in the extreme W., smooth elsewhere.

Barometer highest (30·2 ins.) over France, lowest to westward of Ireland. Gradients slight, but mercury falling slowly in W., and subsequently in S.W.

Sunday, June 24.

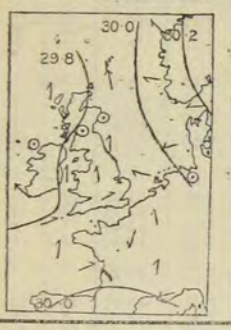
Weather falling gradually into a very unsettled showery condition; severe thunderstorms locally over our south-eastern counties and N.E. of France.

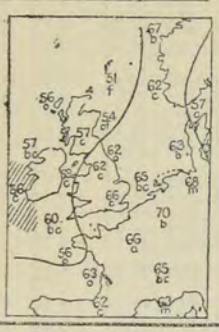
Temperature risen slightly; maxima over England 68° to 74°. Air close and "stuffy" at times.

Wind light from the southward, subsequently backing to south-eastward in several localities.

Sea very little disturbed except at Valencia.

Barometer now high both over Scandinavia and France, lowest to westward of Ireland. Several very shallow subsidiary disturbances appearing over our southern districts later.





Monday, June 25.

Weather very wet, unsettled and stormy. Thunderstorms of great severity experienced in nearly all parts of England, accompanied by heavy local rains. Showers falling in Scotland also, but very few in Ireland.

Temperature very unsteady; rising to between 70° and 75° over many parts of England during the day, but subsequently falling fast, with the rain.

Wind south-westerly in the W., south-easterly to south-westerly elsewhere; force light to fresh. Subsequently becoming westerly over our southern counties, but south-easterly in the N.

Sea smooth in morning except at Valencia, but rising slightly in the Channel later.

Barometer still high both over Scandinavia and S. of France. Well-formed thunderstorm depression advancing from the N.E. of France over England and reaching our N. midland counties by night.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➔ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	57	41	54·7	44·9	49·8	−2·6	1	0·01	−0·27	*	*
	Stornoway	63	43	58·6	45·7	52·2	−1·3	4	0·45	−0·29	51	41
	Wick	62	37	58·9	44·1	51·5	−2·2	4	0·53	+0·13	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	49	60·1	52·1	56·1	−2·6	7	1·25	+0·69	*	*
	Jersey (Noirmont)	67	49	61·0	51·4	56·2	−3·5	6	1·02	+0·72	50	45

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow :

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	67	35	59·9	45·0	52·5	− 3·5	4	0·43	+0·03	*	*
	Aberdeen	66	39	60·9	45·9	53·4	− 2·8	3	0·54	+0·14	33	27
	Leith	65	38	59·9	45·9	52·9	− 4·1	6	1·18	+0·70	*	*
2. ENGLAND, N.E.	Alnwick Castle	65	39	60·4	48·1	54·3	− 2·1	3	1·46	?	*	*
	Shields	66	41	60·1	47·3	53·7	− 3·3	5	1·27	+0·87	*	*
	Durham	72	37	65·3	45·3	55·3	− 2·1	4	1·56	+1·11	35	29
	Scarborough ℳ	68	43	60·7	49·8	55·3	− 1·8	4	0·62	+0·14	*	*
	York	73	40	65·0	48·3	56·7	− 2·4	6	1·03	+0·48	25	21
	Spurn Head	66	48	59·1	51·7	55·4	− 2·3	2	0·95	?	*	*
3. ENGLAND, E.	Hillington ℳ	74	42	66·8	49·3	58·1	− 0·9	4	1·82	+1·33	31	26
	Yarmouth	65	50	60·4	52·7	56·6	− 2·4	4	1·31	+0·80	*	*
	Geldeston	70	47	64·5	51·4	58·0	− 1·1	6	1·36	+0·81	38	33
	Cambridge	72	44	66·4	49·9	58·2	− 2·9	5	3·02	+2·53	29	25
	Rothamsted	73	46	65·6	50·1	57·9	− 3·1	6	1·00	+0·45	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	76	41	66·3	47·7	57·0	− 2·5	2	1·11	+0·56	*	*
	Loughborough	75	41	65·4	48·1	56·8	− 4·0	5	1·06	+0·47	*	*
	Leicester	76	42	66·1	48·8	57·5	− 3·5	5	0·79	+0·19	27	23
	Birmingham (Oscott)	69	45	61·0	47·1	54·1	− 6·0	5	0·41	−0·19	*	*
	Cheadle ℳ	68	42	61·3	47·7	54·5	− 4·5	5	1·49	?	*	*
	Churchstoke ℳ	67	42	60·9	47·2	54·1	− 4·4	6	1·24	?	18	15
	Hereford ℳ	67	44	63·7	49·2	56·5	− 3·6	6	1·69	+1·27	*	*
	Cirencester	66	43	62·6	49·0	55·8	− 3·5	5	1·41	+0·84	22	19
	Oxford	71	43	63·7	49·9	56·8	− 3·5	3	1·88	+1·38	29	25
5. ENGLAND, S.	London†	75	49	68·7	53·0	60·9	− 1·1	4	0·32	−0·30	23	20
	Marlborough ℳ	68	38	64·7	48·1	56·4	− 2·1	6	0·80	+0·35	28	25
	Strathfield Turgiss ℳ	73	43	66·9	49·9	58·4	− 1·1	4	0·73	+0·28	*	*
	Dover	68	51	62·7	54·7	58·7	− 1·4	6	0·59	+0·07	*	*
	Hastings (St. Leonard's)	70	51	62·4	53·1	57·8	− 1·6	4	0·44	+0·13	43	38
	Southampton	69	44	65·0	50·6	57·8	− 2·2	5	0·30	?	36	32
	Hurst Castle	66	43	62·6	50·1	56·4	− 2·9	4	0·27	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	64	42	59·8	47·3	53·6	− 2·4	6	1·40	?	*	*
	Glasgow	65	44	61·0	47·4	54·2	− 2·3	6	1·59	+0·89	24	20
	Ardrossan	63	43	59·0	47·6	53·3	− 3·3	5	1·29	+0·78	*	*
	Silloth (Cumberland)	67	43	62·9	47·3	55·1	− 3·5	4	1·17	+0·72	36	32
	Douglas (Isle of Man)	61	40	58·7	46·9	52·8	− 3·8	6	1·12	+0·72	27	23
7. ENGLAND, N.W.	Barrow-in-Furness	64	49	61·4	50·7	56·1	− 2·0	6	1·62	?	*	*
	Stonyhurst	69	44	62·9	48·3	55·6	− 2·3	6	2·59	+1·83	27	23
	Blackpool ℳ	69	41	62·3	48·7	55·5	− 3·1	5	1·68	+1·13	29	25
	Manchester	69	43	62·1	48·2	55·2	− 4·3	6	1·74	+1·09	*	*
	Liverpool Obsy (Bidston)	69	48	62·3	50·4	56·4	− 2·7	5	1·39	+0·84	*	*
	Llandudno ℳ											
	Holyhead	60	50	59·1	52·9	?56·0	?− 1·9	5	0·59	+0·23	*	*
8. ENGLAND, S.W.	Pembroke	59	47	57·4	50·1	53·8	− 4·3	6	0·91	+0·52	24	21
	Arlington (N. Devon)	62	41	59·4	46·9	53·2	− 5·9	7	1·56	?	*	*
	Cullompton ℳ	64	39	62·2	47·1	54·7	− 5·3	5	0·60	?	14	12
	Falmouth	64	48	61·0	51·1	56·1	− 3·0	7	1·03	+0·43	30	27
	Plymouth	64	44	61·8	50·0	55·9	− 4·1	5	1·52	+1·12	25	22
	Prawle Point	68	45	59·3	48·9	54·1	− 3·7	6	0·98	?	*	*
9. IRELAND, N.	Londonderry	68	43	62·7	46·6	54·7	− 2·3	6	0·71	+0·16	*	*
	Mullaghmore	65	49	61·4	50·6	56·0	− 2·3	5	0·28	?	*	*
	Markree Castle	65	39	61·5	44·7	5·13	− 5·5	5	0·62	−0·09	30	26
	Brookeborough	65	41	61·3	45·8	53·6	− 5·3	5	0·72	?	*	*
	Armagh	64	43	60·1	47·7	53·9	− 4·8	5	0·36	−0·09	28	24
	Donaghadee	60	42	57·9	46·9	52·4	− 4·7	5	0·40	?	*	*
10. IRELAND, S.	Dublin	66	45	60·5	49·7	55·1	− 3·3	4	0·56	−0·04	21	18
	Parsonstown	65	41	61·4	47·0	54·2	− 3·9	6	0·69	+0·19	23	20
	Roche's Point	64	47	61·1	49·9	55·0	− 4·7	4	1·06	+0·50	*	*
	Valencia	61	46	60·4	50·1	55·3	− 2·2	4	0·40	−0·30	45	39
	Foynes										*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 26.] WEEK ENDING MONDAY, JULY 2, 1883. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	76	47	67	53	60	3 above.	4	4	0 (average).	49	40
	2. ENGLAND, N.E.	76	45	68	54	61	3 above.	5	15	10 more.	33	28
	3. ENGLAND, E.	83	46	72	54	63	3 above.	3	5	0 (average).	66	57
	4. MID. COUNTIES	81	42	71	53	62	2 above.	5	13	7 more.	52	45
	5. ENGLAND, S.	84	49	70	55	62	2 above.	3	6	2 more.	52	45
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	71	48	63	53	58	0 (average).	6	11	5 more.	25	21
	7. ENGLAND, N.W.	75	47	66	54	60	1 above.	5	9	3 more.	27	23
	8. ENGLAND, S.W.	72	46	63	54	59	2 below.	4	9	4 more.	36	31
	9. IRELAND, N.	70	41	63	51	57	2 below.	6	8	2 more.	18	15
	10. IRELAND, S.	72	43	64	52	58	1 below.	5	7	1 more.	25	22

General Remarks.

Weather has been generally cloudy or dull at the western stations, but in most of the southern and eastern districts frequent intervals of clear sky have been experienced. Thunderstorms, accompanied by very heavy rains, have occurred in nearly all places, those over central and south-eastern England being exceptionally severe.

Temperature has continued below the mean over Ireland and the S.W. of England, but elsewhere has been considerably higher than of late; in the major part of Great Britain it has varied from 2° to 3° above the mean for the season. The thermometer was highest either on June 29th or July 2nd, when maxima as high as 84° in "England, S.", 83° in "England, E.", and between 72° and 81° in most other districts were registered. The minima, which were generally recorded on the 27th, varied from 41° in "Ireland N.", 42° in the "Midland Counties", and 43° in "Ireland S.", to 49° in "England, S." At our central and south-eastern stations during the latter part of the period the minima were very high, the thermometer during some nights not sinking below 60°.

Rainfall has been about equal to the mean in "Scotland, E." and "England, E.", but more in all other districts. In north-eastern and central England the excess was considerable.

Bright sunshine has been more prevalent than during last week in the "Wheat-producing Districts", but less so in most of the "Grazing Districts." The percentages of possible duration varied from 15 in "Ireland, N." and 28 in "England, N.E.", to 57 in "England, E."

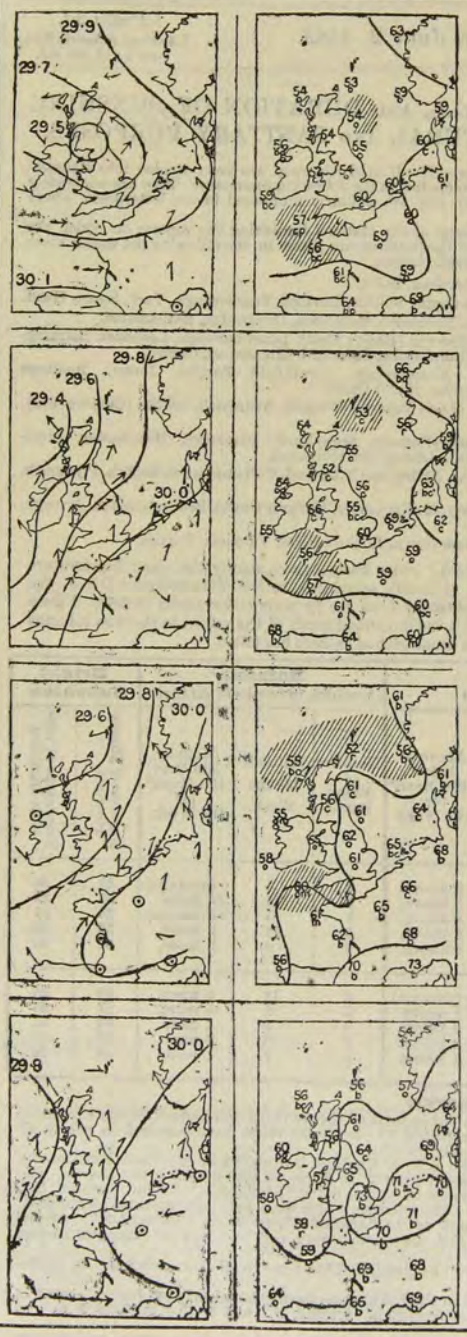
Depressions observed.—Barometrical readings have been highest and comparatively steady in the southern and eastern parts of our area, while over our Islands and the N. of France, pressure has been rather low and unsteady, owing to the presence of several "thunderstorm" depressions. The most important of these disturbances was traversing our Islands in a north-westerly direction at the commencement of the period, and finally disappeared to the north-westward of the Hebrides. The winds, with the exception of a few local variations, have been south-westerly, southerly, or south-easterly, and have been generally light in force, but at our western and north-western stations have occasionally increased to a fresh or strong breeze.

R 7988. 100 & 470.—7/83. Wt. 32. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending July 2, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, June 26.

Weather cloudy and showery in almost all parts of the Kingdom. Thunderstorms occurring over the E. and S.E. of England during latter half of day.

Temperature risen slightly in W. and N., fallen elsewhere; readings ranging from 60° in London to 52° in the N.W. of England. Highest maxima 66° at Loughborough and Cambridge, and 65° at Oxford and in London.

Wind westerly in W. and S. and south-westerly in E., but south-easterly or easterly in N.; strong in force at some of the Channel stations. Blowing strongly in N. later.

Sea rather rough in the Channel and also at Aberdeen, slight or smooth elsewhere.

Barometer rising at the French and our south-western stations, falling elsewhere. Well-defined depression noticed over England on previous day now found over the S. of Scotland, and subsequently travelling slowly north-westwards.

Wednesday, June 27.

Weather fine at most of the eastern stations, but cloudy elsewhere, with steady rain in the S.W. Rain subsequently falling in all parts of the United Kingdom.

Temperature little changed; readings ranging from 60° in London to 52° at Ardrossan.

Wind south-easterly in N. and also at Valencia, but south-westerly or southerly elsewhere; moderate or fresh in force generally. Slight south-westerly gale experienced in Channel during afternoon and evening.

Sea rather rough in the S.W. and also at Sumburgh Head; moderate or smooth elsewhere.

Barometer rising at all but our extreme western and northern stations. Depression of previous two days now passing away to the north-westward of Scotland, but new disturbance approaching S. Ireland. Latter reaching St. George's Channel by evening.

Thursday, June 28.

Weather fine at most of the Continental stations, but still cloudy and unsettled over our Islands, with showers in many places.

Temperature risen generally; readings ranging from 63° at Cambridge to 52° in the Shetlands.

Wind south-westerly or southerly in our Islands and France, and south-easterly in Norway; continuing strong in force at some of the Channel stations.

Sea rough in the Channel and also off the N. of Scotland, but moderate or smooth elsewhere.

Barometer rising at the majority of stations. Depression noticed over the St. George's Channel on previous evening now apparently dispersing over the W. of Ireland. Large area of relatively high readings lying to the eastward and south-eastward of our Islands.

Friday, June 29.

Weather fine at our south-eastern and the Continental stations, but cloudy and unsettled in the W. and N., with rain in several places. Thunderstorms occurring in many parts of England at night.

Temperature risen generally—most in the S.E.; readings ranging from 73° in London to 54° at Donaghadee. Highest maxima 84° in London and 80° at Cambridge and Loughborough.

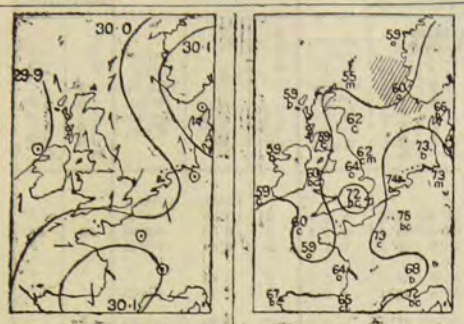
Wind light or moderate from S.E. or S. in morning, but becoming variable in S.E. towards night.

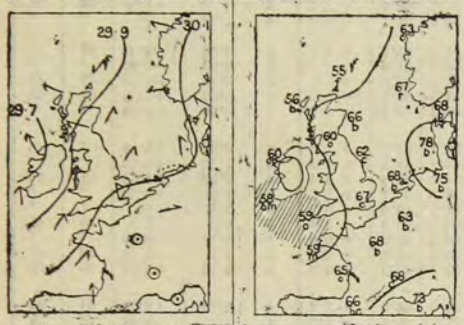
Sea moderate or smooth.

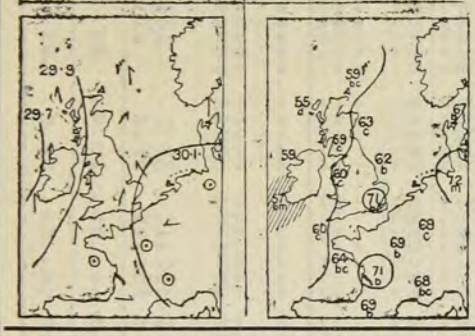
Barometer falling over Scandinavia and France, rising elsewhere. Readings highest over Denmark and the S. of Sweden, and lowest off our western coasts. Small depression advancing across France and the S.E. of England during later part of day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, June 30.

Weather fine at most of our northern, eastern, and central stations, but still cloudy in the W. Thunderstorms occurring over the E. of England later and rain falling in W. of Ireland.

Temperature risen a little in the N. and W.; readings ranging from 72° in London to 53°. at Donaghadee. Highest maxima 82° at Cambridge and 81° in London.

Wind light south-easterly in the W. and N. of our Islands and also on the eastern shores of the North Sea, but westerly in the S.

Sea moderate to smooth.

Barometer falling slightly in the S.E., but rising elsewhere. Areas of relatively high readings shown over the S. of Scandinavia and S.W. of France. Small depression of previous evening now lying between the coasts of Suffolk and Holland, but moving away north-eastwards in latter part of day.

Sunday, July 1.

Weather fine in the S.E., E., and N., but cloudy in the W., with showers at Mullaghmore. Showers falling at all western stations later.

Temperature fallen a little; readings ranging from 67° in London and at Yarmouth to 54° at Donaghadee. Highest maxima 77° in London and 76° at Nairn and Cambridge.

Wind south-westerly at our south-eastern and the French stations, but southerly or south-easterly elsewhere.

Sea rough in the S.W.

Barometer rising over France and the S.E. of England, but falling elsewhere. Highest pressures found to the southward and eastward of our Islands, and well marked depression lying off the west of Ireland. Depression subsequently passing away over the Atlantic.

Monday, July 2.

Weather fine at the Continental and south-eastern stations, but cloudy in the W. and N. of our Islands. Thunderstorms occurring in many parts of England at night.

Temperature risen S., fallen elsewhere; readings ranging from 71° in London to 55° at Stornoway. Highest maxima 83° in London, 80° at Cambridge, and 79° at Loughborough and Oxford.

Wind southerly or south-easterly; fresh in force at some western stations. Shifting to E. on our S.E. coasts in afternoon.

Sea rough at Valencia, moderate or smooth elsewhere.

Barometer rising at all but the south-western stations. Readings relatively high to the eastward and low to the westward of our Islands. Small depression forming over Channel during latter part of day, and fall of barometer taking place generally.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟶ = a gale; → = a fresh to strong breeze; → = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	63	49	60·1	50·1	55·1	+2·1	4	0·87	+0·57	*	*
	Stornoway	68	48	61·7	50·3	56·0	+2·0	4	0·26	−0·48	31	25
	Wick	70	49	64·6	51·6	58·1	+3·6	2	0·24	−0·16	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	52	62·7	54·6	58·7	−0·9	6	0·71	+0·15	*	*
	Jersey (Noirmont)	78	51	68·1	56·4	62·3	+1·7	3	0·12	−0·22	59	53

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	76	50	68·1	54·6	61·4	+ 4·5	2	0·28	−0·13	*	*
	Aberdeen	70	50	66·0	52·4	59·2	+ 2·2	5	0·36	−0·05	49	40
	Leith	73	47	67·9	50·9	59·4	+ 1·3	5	0·55	+0·05	*	*
2. ENGLAND, N.E.	Alnwick Castle	72	45	66·9	52·9	59·9	+ 2·7	3	0·62	?	*	*
	Shields	73	46	67·3	52·4	59·9	+ 1·9	5	1·12	+0·72	*	*
	Durham											
	Scarborough ℳ	74	49	67·4	55·4	61·4	+ 2·9	6	2·29	+1·79	*	*
	York	76	48	71·0	54·7	62·9	+ 2·9	5	2·12	+1·58	33	28
	Spurn Head	72	53	65·9	56·3	61·1	+ 2·2	5	1·17	?	*	*
3. ENGLAND, E.	Hillington ℳ	83	47	74·7	54·6	64·7	+ 4·7	4	0·53	0·00	67	58
	Yarmouth	73	50	67·3	55·7	61·5	+ 1·3	3	0·25	−0·29	*	*
	Geldeston	78	49	72·1	54·4	63·3	+ 3·2	2	0·16	−0·42	70	61
	Cambridge	82	46	74·7	53·4	64·1	+ 1·9	4	0·83	+0·33	61	53
	Rothamsted	80	48	73·2	53·2	63·2	+ 1·2	4	0·90	+0·30	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	80	42	72·7	53·1	62·9	+ 2·2	6	0·86	+0·28	*	*
	Loughborough	80	49	73·6	54·9	64·3	+ 2·6	4	1·10	+0·53	*	*
	Leicester	81	47	74·4	54·4	64·4	+ 2·4	6	2·02	+1·42	51	44
	Birmingham (Oscott)	77	46	70·9	53·2	62·1	+ 1·1	5	1·06	+0·45	*	*
	Cheadle ℳ	74	45	68·7	52·5	60·6	+ 0·7	5	1·55	?	*	*
	Churchstoke ℳ	74	47	69·5	52·1	60·8	+ 1·4	4	0·35	?	43	41
	Hereford ℳ	75	45	70·6	52·3	61·5	+ 0·5	5	0·47	−0·09	*	*
	Cirencester	76	44	68·9	51·3	60·1	− 0·2	3	1·84	+1·24	52	45
	Oxford	79	49	71·4	55·1	63·3	+ 2·3	4	2·25	+1·72	55	48
5. ENGLAND, S.	London†	84	50	75·4	54·4	64·9	+ 1·9	4	0·70	+0·16	51	45
	Marlborough ℳ	78	48	70·4	52·9	61·7	+ 2·0	4	1·15	+0·68	43	38
	Strathfield Turgiss ℳ	82	49	73·9	51·9	62·9	+ 2·4	3	0·65	+0·16	*	*
	Dover	71	53	66·4	56·0	61·2	+ 0·2	4	0·12	−0·33	*	*
	Hastings (St. Leonard's)	79	51	68·6	55·4	62·0	+ 1·8	2	0·31	−0·05	72	63
	Southampton	78	52	69·8	55·0	62·4	+ 1·4	3	0·88	?	40	35
	Hurst Castle	76	53	68·0	56·0	62·0	+ 2·0	4	0·44	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)‡	69	49	63·6	53·2	58·4	+ 1·5	6	1·06	?	*	*
	Glasgow	70	49	65·3	53·2	59·3	+ 2·1	6	0·90	+0·15	27	23
	Ardrossan	64	50	60·4	52·7	56·6	− 0·7	6	0·60	+0·06	*	*
	Silloth (Cumberland)	71	50	65·6	53·1	59·4	− 0·1	5	1·51	+1·03	23	19
	Douglas (Isle of Man)	64	48	60·1	51·5	55·8	− 1·2	6	1·22	+0·82	24	21
7. ENGLAND, N.W.	Barrow-in-Furness	67	51	63·0	54·4	58·7	− 0·2	4	1·52	?	*	*
	Stonyhurst	73	48	67·1	52·4	59·8	+ 1·1	5	0·75	−0·05	31	26
	Blackpool ℳ	72	48	66·1	52·6	59·4	0·0	4	0·57	−0·02	33	28
	Manchester	74	47	68·2	53·2	60·7	+ 0·7	5	0·99	+0·29	*	*
	Liverpool Obsy (Bidston)	75	50	68·3	54·9	61·6	+ 1·7	6	0·57	−0·11	*	*
	Llandudno ℳ	70	50	65·2	55·2	60·2	+ 0·4	2	0·27	−0·18	18	16
	Holyhead	65	51	61·1	55·3	58·2	− 0·3	6	1·76	+1·41	*	*
8. ENGLAND, S.W.	Pembroke	60	51	58·3	53·7	56·0	− 3·0	6	1·21	+0·81	26	23
	Arlington (N. Devon)	70	46	65·1	52·0	58·6	− 1·8	5	1·05	?	*	*
	Cullompton ℳ	72	47	67·6	52·2	59·9	− 1·1	4	0·60	?	43	38
	Falmouth	67	51	63·5	55·1	59·3	− 0·7	3	1·01	+0·41	34	30
	Plymouth	68	52	64·7	55·6	60·2	− 0·8	5	1·00	+0·53	36	32
	Prawle Point	66	49	61·3	53·1	57·2	− 1·7	2	0·20	?	*	*
9. IRELAND, N.	Londonderry	70	48	66·0	51·5	58·8	+ 0·1	5	0·63	+0·03	*	*
	Mullaghmore	68	52	63·3	54·0	58·7	− 0·4	4	1·14	?	*	*
	Markree Castle	66	41	62·1	48·6	55·4	− 4·1	6	0·51	−0·18	18	15
	Brookeborough	67	45	63·2	50·4	56·8	− 2·8	4	0·53	?	*	*
	Armagh	67	44	62·4	50·6	56·5	− 3·0	6	1·08	+0·53	17	15
	Donaghadee	62	45	60·0	50·6	55·3	− 2·4	6	1·01	?	*	*
10. IRELAND, S.	Dublin	70	49	66·0	53·9	60·0	+ 0·9	6	0·26	−0·34	18	16
	Parsonstown	72	43	66·0	52·3	59·2	+ 0·2	4	0·44	−0·09	28	24
	Roche's Point	65	45	62·6	51·3	57·0	+ 3·2	6	1·62	+1·06	*	*
	Valencia	65	47	62·1	52·6	57·4	− 0·7	6	0·88	+0·13	30	26
	Foynes	68	46	62·1	49·0	55·6	− 2·9	4	0·47	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 27.] WEEK ENDING MONDAY, JULY 9, 1883. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	72	48	67	54	61	3 above.	5	12	7 more.	40	33
	2. ENGLAND, N.E.	75	48	68	55	61	2 above.	4	5	0 (average).	34	29
	3. ENGLAND, E.	82	48	72	56	64	2 above.	4	5	1 less.	50	43
	4. MID. COUNTIES	77	47	70	54	62	1 above.	4	4	2 less.	38	33
	5. ENGLAND, S.	75	48	68	57	62	1 above.	4	3	2 less.	44	39
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	70	45	65	55	60	2 above.	5	14	6 more.	28	23
	7. ENGLAND, N.W.	72	45	66	55	60	0 (average).	6	6	0 (average).	26	23
	8. ENGLAND, S.W.	70	50	64	55	59	2 below.	6	7	2 more.	34	30
	9. IRELAND, N.	72	46	65	53	59	1 below.	6	14	8 more.	25	22
	10. IRELAND, S.	69	49	63	52	58	2 below.	5	14	7 more.	23	19

General Remarks.

Weather has been generally cloudy or rather dull, with somewhat frequent showers. During the first few days thunderstorms were very prevalent over England and in some parts of Scotland and Ireland also.

Temperature has been a little above the mean in all the "Wheat-producing Districts" as well as in "Scotland, W.", but slightly below, or about equal to, its normal value in Ireland and the W. of England. The maxima were registered in most places on the 3rd, and varied from 75° to 82° over the greater part of England and from 69° to 72° elsewhere. The minima, which were recorded on different days in the various districts, ranged from 45° in "Scotland, W." and "England, N.W.", and 46° in "Ireland, N.", to 50° in "England, S.W."

Rainfall has been more than the mean in nearly all the "Grazing Districts" as well as in "Scotland, E.", but at most of the English stations a deficit is reported. At Markree during a thunderstorm 1·5 ins. of rain fell within an hour.

Bright sunshine percentages have not differed much from those recorded during last week; in "England, E." 43 °/₀ of the possible duration has been registered, and in "England, S." 39 °/₀, while in "England, N.E." only 29 °/₀ has been recorded, and in "Ireland, S." only 19 °/₀.

Depressions observed.—Pressure has continued comparatively high and steady over the southern and eastern parts of our area, and rather low and unsteady over Great Britain and Ireland. Several "thunderstorm" depressions have again passed across, or developed over, our Islands, while some larger disturbances have skirted our northern and north-western coasts. The winds, which have been generally light or moderate in force, have varied in direction between S.W., S., and S.E.

R 8090 100 & 470.—7/83. Wt. 32. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending July 9, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, July 3.

Weather unsettled and showery generally, with thunderstorms at Shields, Spurn Head, and Rochefort. Thunderstorms with heavy rain occurring later in many parts of Great Britain.

Temperature fallen a few degrees at most stations; readings ranging from 67° in London to 54° at Donaghadee. Highest maxima 77° at Cambridge, 76° at Loughborough, and 75° in London.

Wind south-easterly on our northern and eastern coasts, but southerly in the W., and south-westerly or westerly in the S.; light or moderate in force generally.

Sea rough in the S.W., slight or smooth elsewhere.

Barometer falling at all but the extreme northern stations. Highest readings found over Scandinavia, with lowest pressures off the W. of Ireland, and some shallow disturbances over central England. No important change later.

Wednesday, July 4.

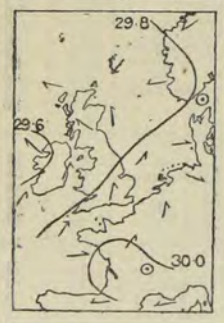
Weather still cloudy and showery at the majority of stations, with thunder at Biarritz. Thunderstorms occurring later in the N. of England, but weather improving in S.

Temperature fallen generally; readings ranging from 62° at Stornoway and Yarmouth to 54° at Donaghadee. Maxima rather low for time of year—highest only 70° in London and at Cambridge.

Wind easterly or north-easterly in Norway, Scotland, and the N. of Ireland, but south-westerly or southerly at the more southern stations. Light or moderate in force in most places.

Sea moderate to smooth.

Barometer falling generally. Areas of relatively high pressure found over Scandinavia and the S. of France, with large shallow depression over Ireland and the W. and N. of England. Depression moving northwards later, and barometer rising in S.



Thursday, July 5.

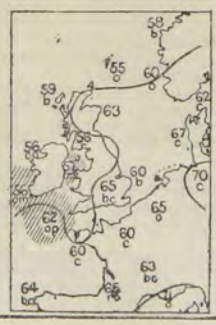
Weather cloudy at the majority of stations, with fog in the extreme N. of Scotland and drizzle at Valencia. Rain falling later in the W., but some improvement taking place in the S.E.

Temperature changed irregularly; readings ranging from 63° at Dover to 54° at Sumburgh Head and Wick. Maxima still rather low generally.

Wind easterly in Scandinavia and the N. of Scotland, south-westerly elsewhere. Light in N., moderate or fresh in S.

Sea rather rough in the western part of the Channel, moderate or smooth generally.

Barometer rising at our southern and the French stations, falling elsewhere. Areas of relatively high readings still found over the N. of Scandinavia and S. of France, and small depression lying off the W. of Ireland. No important change later.



Friday, July 6.

Weather fine in the N. and E., but cloudy and showery in the W. and S.W. Showers falling in most districts later, and thunderstorms occurring over central France.

Temperature risen in S., little changed elsewhere; readings ranging from 65° in London to 55° at Sumburgh Head, Wick, and Donaghadee. Highest maxima 74° in London and 73° at Cambridge.

Wind fresh southerly in W. and S.W., but moderate south-easterly at most eastern stations. Veering to S.W. in W. and S.W. later.

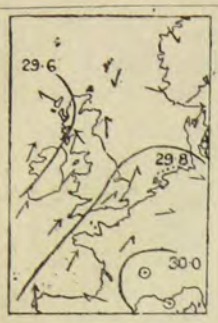
Sea rough on our S.W. coasts, moderate to smooth elsewhere.

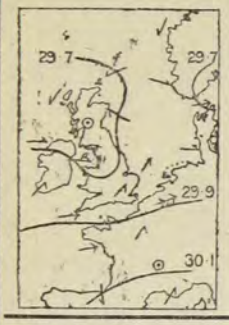
Barometer falling at all but our eastern stations. Area of highest readings now found over central and southern Europe, and rather deep depression lying off the W. of Ireland. Disturbance inclined to move slowly northwards later, and barometer rising in S.W.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Saturday, July 7.

Weather fine in the E. and S.E., but still cloudy and showery in the W. Showers falling in most localities later.

Temperature risen a little at the Irish and French stations, fallen elsewhere; readings ranging from 64° at Dover, Cambridge, and Yarmouth to 55° in the Shetlands. Highest maxima 74° at Cambridge and 73° in London and at Yarmouth.

Wind south-easterly in extreme N., southerly or south-westerly elsewhere; fresh in force at some western stations.

Sea rather rough at Scilly and Valencia, slight or smooth on other parts of our coasts.

Barometer falling in the N. and E. of our Islands and also on the eastern shores of the North Sea, but rising in the W. and S. Highest pressure now found over the S. of France, and depression of previous day moving northwards outside the W. of Scotland.

Sunday, July 8.

Weather very cloudy at the extreme northern and south-western stations, fine elsewhere. Dull rainy weather setting in over the western and southern coasts later, and thunderstorms occurring at Roche's Point and in London.

Temperature changed very little; readings ranging from 66° in London to 56° at Stornoway. Highest maximum registered 75° in London and at Loughborough and Cambridge.

Wind south-easterly in the N. of Scotland and also at Valencia, south-westerly or southerly elsewhere; light or moderate in force generally. Increasing to slight gale at Scilly in afternoon.

Sea rather rough in the S.W.

Barometer rising a little at all but the extreme northern stations. Highest pressure still found over the S. of France, with large area of low readings over Scandinavia and depressions skirting our western coasts. Subsidiary disturbance appearing off the S. of Ireland during latter part of day.

Monday, July 9.

Weather fine in the S.E. and S.W., but cloudy elsewhere, with rain at the northern, and showers at a few of the southern stations. Showers falling in W. later.

Temperature fallen in most places; readings ranging from 67° at Yarmouth to 52° at Wick. Maxima again rather low generally.

Wind easterly in extreme N., south-westerly or westerly elsewhere; fresh or strong in force in channel.

Sea rather rough at Scilly, moderate or smooth on other parts of our coasts.

Barometer rising at the French and south-western stations, falling in the E. Pressure highest over the S. of France, with areas of relatively low readings over Scandinavia and the W. of Scotland. Rise subsequently extending to all parts of our Islands.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⇒ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	63	50	59·9	51·4	55·7	+2·2	3	0·23	−0·06	*	*
	Stornoway	69	48	64·4	52·0	58·2	+3·7	6	0·74	−0·08	45	37
	Wick	67	44	63·6	51·1	57·4	+2·4	3	0·32	−0·08	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	53	63·3	54·7	59·0	−1·4	7	1·74	+1·18	*	*
	Jersey (Noirmont)	70	54	66·7	56·1	61·4	+0·1	4	0·07	−0·26	48	43

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	71	53	67·7	55·6	61·7	+ 4·2	5	0·87	+0·41	*	*
	Aberdeen	72	50	67·0	53·4	60·2	+ 2·8	5	1·23	+0·74	40	33
	Leith	70	48	66·9	52·9	59·9	+ 0·9	6	1·38	+0·85	*	*
2. ENGLAND, N.E.	Alnwick Castle	69	48	65·4	52·6	59·0	+ 1·1	7	0·87	?	*	*
	Shields	72	50	66·4	53·6	60·0	+ 1·5	3	0·53	+0·08	*	*
	Durham	75	48	70·8	53·6	62·2	+ 3·2	5	0·28	−0·26	38	32
	Scarborough ℳ	72	52	67·9	55·2	61·6	+ 2·2	3	0·29	−0·26	*	*
	York	72	50	69·6	54·7	62·2	+ 1·1	3	0·34	−0·19	29	25
	Spurn Head	73	54	67·4	57·3	62·4	+ 2·6	3	0·64	?	*	*
3. ENGLAND, E.	Hillington ℳ	82	48	74·5	54·7	64·6	+ 3·7	4	0·78	+0·21	41	35
	Yarmouth	73	53	67·9	57·3	62·6	+ 1·6	3	0·78	+0·21	*	*
	Geldeston	78	50	72·3	55·9	64·1	+ 3·1	3	0·55	−0·05	63	55
	Cambridge	77	50	73·0	54·4	63·7	+ 0·7	3	0·14	−0·37	45	39
	Rothamsted	76	50	71·0	54·0	62·5	− 0·1	5	0·22	−0·38	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	75	49	71·3	54·1	62·7	+ 1·2	5	0·74	+0·14	*	*
	Loughborough	76	52	71·3	55·9	63·6	+ 1·1	5	0·37	−0·18	*	*
	Leicester	77	51	72·9	55·1	63·6	+ 1·0	5	0·18	−0·42	33	28
	Birmingham (Oscott)	77	51	71·9	54·6	63·3	+ 1·8	4	0·47	−0·14	*	*
	Cheadle ℳ	72	49	67·9	53·1	60·5	0·0	4	0·32	?	*	*
	Churchstoke ℳ	74	47	68·3	52·6	60·5	+ 0·5	3	0·31	?	39	34
	Hereford ℳ	74	49	69·9	53·6	61·8	− 0·2	3	0·16	−0·34	*	*
	Cirencester	70	48	67·0	53·6	60·3	− 0·7	5	0·53	−0·07	39	34
	Oxford	72	52	69·3	56·1	62·7	+ 1·0	5	0·15	−0·39	42	37
5. ENGLAND, S.	London†	75	51	72·7	56·3	64·5	+ 0·7	3	0·31	−0·24	33	29
	Marlborough ℳ	73	48	68·8	53·5	61·2	+ 0·5	4	0·31	−0·18	46	41
	Strathfield Turgiss ℳ										*	*
	Dover	70	52	66·1	58·3	62·2	+ 0·6	3	0·20	−0·25	*	*
	Hastings (St. Leonard's)	70	54	66·3	57·1	61·7	+ 0·7	2	0·20	−0·27	52	46
	Southampton	72	55	68·7	57·0	62·9	+ 1·4	5	0·23	?	44	39
	Hurst Castle	68	56	66·0	57·0	61·5	+ 0·7	4	0·38	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	69	54	64·7	55·6	60·2	+ 3·1	5	2·10	?	*	*
	Glasgow	69	51	65·9	54·9	60·4	+ 2·4	6	1·20	+0·40	22	18
	Ardrossan	68	53	63·0	54·6	58·8	+ 0·8	5	1·54	+0·97	*	*
	Silloth (Cumberland)	70	51	67·9	54·8	61·4	+ 1·3	6	0·84	+0·24	30	25
	Douglas (Isle of Man)	66	45	62·3	52·4	57·4	+ 0·1	5	1·15	+0·67	31	26
7. ENGLAND, N.W.	Barrow-in-Furness	65	54	64·1	55·9	60·0	+ 1·0	4	0·51	?	*	*
	Stonyhurst	70	48	67·9	52·9	60·4	+ 1·1	7	0·68	−0·18	24	21
	Blackpool ℳ	69	45	65·8	52·7	59·3	− 0·6	6	0·52	−0·13	37	32
	Manchester	72	50	68·0	53·5	60·8	+ 0·2	6	0·34	−0·37	*	*
	Liverpool Obsy (Bidston)	70	53	67·0	55·6	61·3	+ 0·7	6	0·82	+0·06	*	*
	Llandudno ℳ	67	51	64·6	54·5	59·6	− 0·9	5	0·72	+0·25	18	16
	Holyhead	65	56	63·1	56·7	59·9	+ 0·9	6	0·83	+0·49	*	*
8. ENGLAND, S.W.	Pembroke	62	54	60·3	54·9	57·6	− 2·4	7	0·87	+0·47	39	34
	Arlington (N. Devon)	69	50	64·4	52·4	58·4	− 2·8	7	1·14	?	*	*
	Cullompton ℳ	70	50	66·4	53·3	59·9	− 2·0	5	0·64	?	31	27
	Falmouth	66	54	63·4	55·7	59·6	− 1·1	6	0·73	+0·13	31	28
	Plymouth	67	55	66·5	56·9	61·7	− 0·1	6	0·73	+0·20	35	31
	Prawle Point	63	52	61·1	53·9	57·5	− 2·2	5	0·51	?	*	*
9. IRELAND, N.	Londonderry	72	49	69·0	52·4	60·7	+ 2·2	6	0·38	−0·10	*	*
	Mullaghmore	65	51	63·3	54·4	58·9	− 0·9	6	1·15	?	*	*
	Markree Castle	68	51	64·4	52·6	58·5	− 1·5	7	3·31	+2·67	16	14
	Brookeborough	67	52	64·1	53·5	58·8	− 1·4	7	2·15	?	*	*
	Armagh	66	51	64·6	53·1	58·9	− 1·1	5	0·76	+0·13	34	29
	Donaghadee	65	46	63·4	51·3	57·4	− 0·7	6	0·58	?	*	*
10. IRELAND, S.	Dublin	67	53	65·1	55·1	60·1	+ 0·2	6	0·63	+0·06	16	14
	Parsonstown	69	51	65·0	53·3	59·2	− 0·3	4	1·36	+0·79	23	20
	Roche's Point	64	51	62·0	52·6	57·3	− 3·6	4	1·34	+0·74	*	*
	Valencia	64	50	61·6	53·0	57·3	− 1·6	7	1·92	+1·12	26	23
	Foynes	67	49	62·9	50·1	56·5	− 2·6	6	1·51	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 28.] WEEK ENDING MONDAY, JULY 16, 1883. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Rawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	66	39	63	50	56	2 below.	5	5	1 less.	29	24
	2. ENGLAND, N.E.	71	42	65	51	58	2 below.	5	5	1 less.	40	34
	3. ENGLAND, E.	71	43	66	51	59	4 below.	6	11	5 more.	39	35
	4. MID. COUNTIES	72	39	65	49	57	5 below.	6	5	1 less.	35	30
	5. ENGLAND, S.	72	49	64	52	58	4 below.	5	9	4 more.	42	37
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	68	41	62	50	56	2 below.	6	10	3 more.	46	39
	7. ENGLAND, N.W.	67	43	62	53	57	3 below.	5	5	2 less.	49	43
	8. ENGLAND, S.W.	68	41	62	52	57	4 below.	6	8	3 more.	41	37
	9. IRELAND, N.	67	43	61	50	55	5 below.	7	11	4 more.	37	32
	10. IRELAND, S.	67	43	62	51	56	4 below.	7	9	2 more.	40	35

General Remarks.

Weather has been generally cloudy and cold. Severe thunderstorms have been experienced in almost all districts, and in several instances the accompanying rainfall has been very heavy.

Temperature has been below the mean in all parts of the Kingdom, the deficit over Ireland and in most of the English districts being as much as 4° or 5°, and in Scotland and the N. of England 2° or 3°. The maxima, which were recorded during the earlier days of the period, varied from 71° to 72° over the greater part of England, but elsewhere they were no higher than from 66° to 68°. The minima were generally registered on the 15th or 16th, and were unusually low for the season. In the "Midland Counties" and in the E. of Scotland the thermometer fell to 39°, in "England, S." to 40°, and in other districts to 41°, 42°, or 43°.

Rainfall has been a trifle less than the mean in the "Midland Counties, the N. of England, and E. of Scotland," but elsewhere a decided excess is reported.

Bright sunshine, which has been rather more equally distributed than of late, has varied from 43 °/₀ of the possible duration in "England, N.W." and 39 °/₀ in "Scotland, W.", to 30 °/₀ in the "Midland Counties", and to 24 °/₀ in "Scotland, E."

Depressions observed.—Barometric pressure has again been comparatively high and steady over the southern parts of our area, while over our Islands, Denmark, and Scandinavia, depressions—generally small and ill-defined—have followed each other in quick succession. The winds most prevalent during the first part of the period were between S. and W. in direction and moderate to fresh in force, but on the 13th, a fresh northerly or north-westerly breeze had appeared on our northern coasts, and subsequently became general in all districts.

R 8181. 100 & 470.—7/83. Wt. 32. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending July 16, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, July 10.

Weather showery in the extreme N. of Scotland, and dull on our S.W. coasts, but generally fine elsewhere. Rain falling later, excepting in S.E.

Temperature risen slightly in the W. and S., but fallen in the E.; readings ranging from 63° at Dover and in London to 55° in the Shetlands. Highest maxima 72° in London, and 71° at Cambridge and Yarmouth.

Wind southerly in W., but south-westerly or westerly elsewhere. Light or moderate in force generally in morning, but afterwards blowing strongly in Ireland and the S.W. of England.

Sea rather rough at Valencia, moderate or smooth elsewhere.

Barometer rising on our N. and E. coasts, but falling in all other localities. Pressure highest over the S. of France, with depressions passing across Scandinavia, and new one advancing towards our W. coasts. Fall becoming general later.

Wednesday, July 11.

Weather unsettled and showery generally. Thunderstorm occurring at Ardrossan in afternoon.

Temperature fallen a little in most places; readings ranging from 63° in London and at Cambridge to 55° in the Shetlands.

Wind moderate south-easterly in extreme N., fresh or strong southerly or south-westerly elsewhere.

Sea rough in the W. and S.W., smooth in the E.

Barometer falling generally. Shallow depression lying over Scandinavia, and deeper disturbance off the W. of Ireland, pressure being highest over the S. of France. Western depression moving slowly northwards during day.

Thursday, July 12.

Weather cloudy or overcast in almost all places, with showers at Valencia and steady rain in the S.W. of England and N.W. of France. Rain falling generally later, and thunderstorms occurring in the N. of Scotland.

Temperature changed irregularly; readings ranging from 62° in London to 56° at several of the western and northern stations.

Wind light north-easterly in the extreme N., but fresh or strong south-westerly elsewhere. Subsequently veering to N.W. in Ireland, and moderating.

Sea rough on many parts of our western and southern coasts.

Barometer falling at all but the Irish stations, and depression noticed in W. on previous day passing in a north-easterly direction across Scotland. Recovery of pressure taking place in N. later.

Friday, July 13.

Weather fine at our south-eastern and the French stations; cloudy elsewhere, with showers at Valencia. Sky clearing somewhat generally during latter part of day, but thunderstorms and heavy showers occurring locally.

Temperature little changed; readings ranging from 60° at several of the southern stations, including London, to 54° at Nairn.

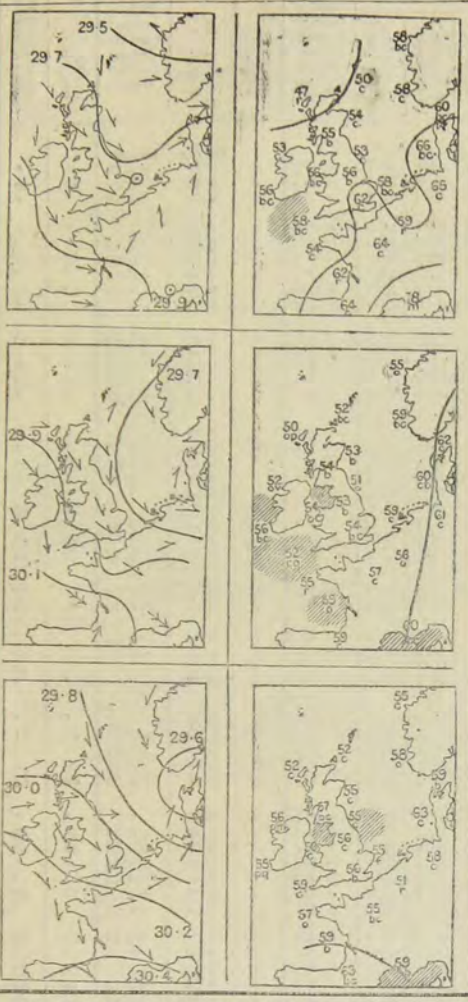
Wind moderate north-westerly in N. and W., fresh westerly or south-westerly elsewhere.

Sea rather rough in the Channel.

Barometer falling in Scandinavia and Denmark, rising elsewhere. Depression of previous two days now lying off the W. of Norway. Recovery extending to eastern shores of North Sea later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, July 14.

Weather varying considerably in different localities, but fair at the majority of stations. Showers subsequently falling in all places, and thunderstorms with heavy rain occurring in many parts of England.

Temperature fallen at all but the southern stations; readings ranging from 62° at Dover and in London to 47° at Stornoway. Maxima low generally; thermometer in London not exceeding 63°.

Wind light and somewhat variable over the midland districts, moderate north-westerly elsewhere.

Sea rather rough at Scilly, slight or smooth elsewhere.

Barometer rising at all but the French stations, but change rather irregular; shallow depressions forming over central England. Depressions moving slowly eastwards later, and barometer rising in France.

Sunday, July 15.

Weather fair in most places, but showers reported at one or two isolated stations. Showers falling pretty generally later, and thunderstorms occurring in the S. of England.

Temperature risen slightly N., fallen elsewhere; readings ranging from 61° at Dover to 47° at Prawle Point. Maxima again very low.

Wind generally north-westerly; fresh or strong in force in the W. and S.W., but moderate in E.

Sea rough in the S.W., slight or smooth elsewhere.

Barometer falling in Denmark and the S. of Sweden, rising over our Islands and France. Shallow disturbance of previous day passing away over the North Sea, and pressure making up over the Bay of Biscay. Barometer continuing to rise all day.

Monday, July 16.

Weather cloudy in most places, with showers at Nairn and Valencia. Showers falling later at most of the northern and a few of the southern stations.

Temperature risen slightly; readings varying from 62° at Dover to 52° at Sumburgh Head and Nairn.

Wind south-westerly in Denmark, north-westerly or westerly elsewhere; light or moderate in force generally.

Sea rather rough at Spurn Head and Liverpool, slight or smooth on other parts of our coasts.

Barometer falling on eastern shores of North Sea, rising over our Islands and France. Readings highest to southward of France, with well defined depression over the S. of Sweden. Fresh fall taking place in Scotland during latter part of day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	59	41	56·6	47·6	52·1	−1·7	6	0·69	+0·39	*	*
	Stornoway	63	40	57·9	46·1	52·0	−2·8	6	0·82	+0·10	27	22
	Wick	67	35	60·6	46·4	53·5	−2·0	5	0·56	+0·16	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	50	61·7	53·7	57·7	−3·2	7	0·77	+0·22	*	*
	Jersey (Noirmont)	66	49	63·6	54·0	58·8	−3·2	5	0·96	+0·56	56	51

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	66	39	62·7	49·1	55·9	− 2·1	4	0·18	−0·35	*	*
	Aberdeen	66	44	62·3	49·9	56·1	− 1·4	6	0·54	−0·04	24	20
	Leith	69	47	63·6	50·6	57·1	− 1·9	6	0·74	+0·18	*	*
2. ENGLAND, N.E.	Alnwick Castle	66	46	61·9	50·1	56·0	− 2·0	5	0·87	?	*	*
	Shields	69	43	64·3	48·9	56·6	− 2·0	5	0 35	−0·15	*	*
	Durham	71	42	66·9	48·1	57·5	− 1·7	5	0·36	−0·20	39	33
	Scarborough ℞	68	49	64·1	53·6	58·9	− 1·0	4	0·26	−0·34	*	*
	York	70	44	67·3	49·7	58·5	− 3·4	5	0·25	−0·25	40	35
	Spurn Head	70	50	?65·0	52·9	59·0	− 1·3	3	0·61	?	*	*
3. ENGLAND, E.	Hillington ℞	71	45	66·5	50·0	58·3	− 2·8	6	0·83	+0·23	39	34
	Yarmouth	71	48	65·9	52·6	59·3	− 2·4	5	1·75	+1·17	*	*
	Geldeston	71	47	66·2	51·5	58·9	− 3·0	5	0·71	+0·14	43	38
	Cambridge	71	44	67·1	49·6	58·4	− 4·8	6	0·78	+0·16	36	32
	Rothamsted	70	43	65·8	49·7	57·8	− 5·2	7	1·49	+0·88	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	71	43	66·7	50·3	58·5	− 3·5	4	0·27	−0·34	*	*
	Loughborough	70	45	66·0	50·9	58·5	− 4·4	6	0·28	−0·23	*	*
	Leicester	72	43	66·1	50·4	58·3	− 4·4	6	1·13	+0·53	29	25
	Birmingham (Oscott)	70	41	64·0	48·7	56·4	− 5·6	3	0·27	−0·34	*	*
	Cheadle ℞	66	42	61·2	47·8	54·5	− 6·5	7	0·56	?	*	*
	Churchstoke ℞	66	39	63·0	48·3	56·7	− 3·9	6	0·51	?	37	32
	Hereford ℞	71	42	66·3	48·3	57·3	− 4·9	6	0·85	+0·30	*	*
	Cirencester	67	40	63·4	48·9	56·2	− 5·3	6	0·57	−0·04	36	32
	Oxford	68	43	64·7	51·1	57·9	− 4·1	7	0·37	−0·17	36	32
5. ENGLAND, S.	London†	72	43	66·4	51·6	59·0	− 5·0	3	0·85	+0·30	36	32
	Marlborough ℞	69	40	64·2	48·9	56·6	− 4·5	6	0·67	+0·14	34	30
	Strathfield Turgiss ℞										*	*
	Dover	66	48	63·6	54·4	59·0	− 3·0	3	0·43	−0·02	*	*
	Hastings (St. Leonard's)	67	44	62·9	53·2	58·1	− 3·4	4	1·00	+0·60	51	46
	Southampton	69	43	65·3	51·7	58·5	− 3·5	6	1·42	?	45	40
	Hurst Castle	67	46	63·3	53·1	58·2	− 3·2	5	0·89	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	65	41	60·4	49·4	54·9	− 2·4	5	0·94	?	*	*
	Glasgow	67	45	61·6	49·8	55·7	− 2·5	7	1·69	+0·85	37	31
	Ardrossan	64	47	60·7	51·3	56·0	− 2·0	5	1·00	+0·39	*	*
	Silloth (Cumberland)	68	44	65·1	50·1	57·6	− 2·7	6	0·66	+0·11	38	32
	Douglas (Isle of Man)	64	45	61·8	50·1	56·0	− 1·6	4	0·51	0·00	62	54
7. ENGLAND, N.W.	Barrow-in-Furness	64	48	61·7	52·9	57·3	− 2·2	4	0·21	?	*	*
	Stonyhurst	66	44	61·7	49 8	55·8	− 3 8	5	0·96	+0·06	44	38
	Blackpool ℞	65	47	61·5	53·4	57·5	− 2·7	6	0·57	−0·13	56	49
	Manchester	67	45	62·1	49·3	55·7	− 5·3	6	1·06	+0·31	*	*
	Liverpool Obs' (Bidston)	67	48	62·4	53·0	57·7	− 3·3	6	0·44	−0·46	*	*
	Llandudno ℞	67	50	62·9	53·1	58·0	− 3·0	3	0·06	−0·44	48	42
	Holyhead	62	53	59·7	55·6	57·7	− 1·8	4	0·24	−0·12	*	*
8. ENGLAND, S.W.	Pembroke	61	48	59·4	52·9	56·2	− 4·1	4	0·64	+0·15	52	46
	Arlington (N. Devon)	65	41	61·6	49·1	55·4	− 6·1	7	0·39	?	*	*
	Cullompton ℞	68	42	64·5	49·0	56·8	− 5·2	7	1·19	?	36	32
	Falmouth	65	49	62·5	53·3	57·9	− 3·4	6	0·73	+0·12	45	41
	Plymouth	68	47	63·9	53·2	58·6	− 3·4	6	0·69	+0·09	31	28
	Prawle Point	68	47	62·1	51·9	57·0	− 3·0	6	0·72	?	*	*
9. IRELAND, N.	Londonderry	67	46	62·0	49·3	55·7	− 3·2	7	1·29	+0·55	*	*
	Mullaghmore	64	50	60·7	52·6	56·7	− 3·2	7	1·00	?	*	*
	Markree Castle	62	45	6·5	48·4	54·5	− 5·8	7	1·06	+0·44	38	33
	Brookeborough	65	43	59·9	47·8	53·9	− 6·7	7	1·68	?	*	*
	Armagh	65	46	60·7	49·8	55·3	− 5·2	7	0·72	+0·02	35	30
	Donaghadee	65	44	61·6	49·6	55·6	− 2·9	5	0·91	?	*	*
10. IRELAND, S.	Dublin	67	45	62·9	51·7	57·3	− 2·7	7	0·48	−0·08	40	35
	Parsonstown	65	43	62·0	48·0	55·0	− 4 9	7	0·99	+0 36	30	25
	Roche's Point	64	47	62·4	50·4	56·4	− 4·7	5	0·73	+0·11	*	*
	Valencia	64	49	61·4	52·0	56·7	− 2·4	7	1·14	+0·29	50	44
	Foynes	64	45	60·1	50·7	55·4	− 4·2	7	0·92	?	*	*

Stations marked ℞ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 29.] WEEK ENDING MONDAY, JULY 23, 1883. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Landale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	64	39	60	47	54	5 below.	6	19	13 more.	18	15
	2. ENGLAND, N.E.	66	40	60	47	54	6 below.	5	18	12 more.	36	32
	3. ENGLAND, E.	67	39	63	47	55	7 below.	3	12	6 more.	30	27
	4. MID. COUNTIES	67	39	61	47	54	8 below.	5	12	6 more.	18	16
	5. ENGLAND, S.	69	43	63	51	57	5 below.	5	7	2 more.	23	21
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	66	43	60	48	54	4 below.	3	4	3 less.	46	40
	7. ENGLAND, N.W.	63	44	59	50	55	6 below.	4	8	1 more.	35	31
	8. ENGLAND, S.W.	66	44	61	51	56	5 below.	7	10	4 more.	26	23
	9. IRELAND, N.	63	40	60	48	54	6 below.	4	3	5 less.	31	28
	10. IRELAND, S.	65	44	61	51	56	4 below.	6	12	5 more.	27	24

General Remarks.

Weather has been generally cloudy, with frequent showers in the western and southern parts of the Kingdom, and occasional heavy rain in the N.E. Thunderstorms occurred over many parts of Great Britain on the 21st and 23rd.

Temperature has been considerably below the mean in all districts, the deficit ranging from 4° in "Ireland S." and "Scotland W." and 5° in "Scotland E." and the S. and S.W. of England, to 8° over the "Midland Counties." The thermometer has not reached 70° at any of our stations; in "Scotland, E." 64° was the highest point recorded, and in "Ireland, N." and "England, N.W." 63°. The lowest minima which were registered either on the 20th or 23rd, ranged from 39° in "Scotland, E.", "England, E.", and the "Midland Counties", to 45° in "England, S."

Rainfall has been less than the mean in "Scotland, W." and "Ireland, N.", but more in all other districts. In "Scotland, E." and "England, N.E." heavy continuous rain fell on the 21st, and the total amount for the week has been three times as much as the mean.

Bright sunshine has been generally deficient. The percentages of possible duration have varied from 15 in "Scotland, E." and 16 in the "Midland Counties", to 40 in "Scotland, W."

Depressions observed.—During the greater part of the week pressure has been highest to the westward and south-westward, and lowest to the eastward of our Islands, and moderate or fresh north-westerly winds have therefore prevailed generally. On the 20th and 21st, however, a temporary interruption was occasioned by a complex area of low pressure which advanced towards our S.W. coasts, crossed England, and finally passed away in a northerly direction over the North Sea. During its passage the winds were light and somewhat variable.

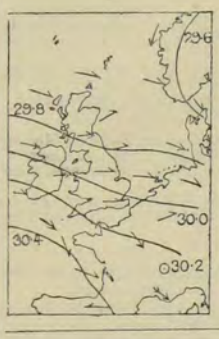
R 8289. 100 & 470.—7/83. Wt. 32. E. & S.

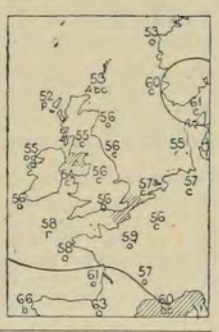
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending July 23, 1883.

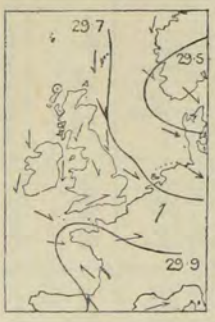
Synoptic Weather Charts.—8 a.m.

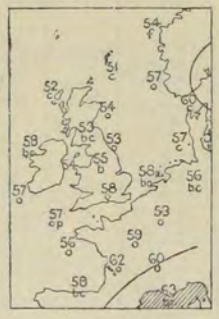
BAROMETER AND WIND.

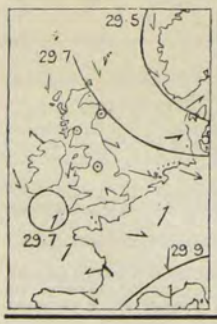
CLOUD, RAIN, SEA, AND TEMPERATURE.

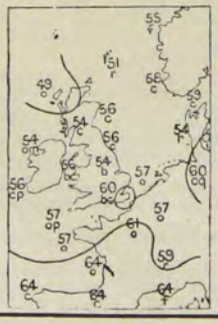












Weather during the 24 hours succeeding the date of the Charts.

Tuesday, July 17.

Weather cloudy generally, with rain at some western stations. Showers falling later in all parts of the Kingdom.

Temperature risen a little generally; readings ranging from 59° at Leith, York, and Cambridge to 52° at Stornoway and Nairn. Maxima below 65° in almost all places, and below 60° on our western coasts.

Wind westerly or north-westerly; moderate in N. and E., but strong at some western and southern stations. Freshening in E. later.

Sea rough in the W. and S.W.

Barometer falling generally. Highest pressures found over the Bay of Biscay, and lowest over Scandinavia. Depression skirting our northern coasts during day, and recovery of pressure subsequently taking place in Scotland.

Wednesday, July 18.

Weather cloudy in most places, with showers at Stornoway and rain at Scilly. Rain falling later at all western and northern stations.

Temperature still very low; readings ranging from 60° at Dover to 52° at Stornoway. Maxima below 65° generally.

Wind light or moderate from N.W. Subsequently backing to W. at our southern stations.

Sea rough at Barrow-in-Furness and Cape Gris Nez, moderate or smooth elsewhere.

Barometer rising in Scotland and the N. of Scandinavia, falling elsewhere. Readings highest over the Bay of Biscay, and lowest in the S. of Sweden. New fall commencing in N. later.

Thursday, July 19.

Weather fine at several of the north-western and south-eastern stations, cloudy elsewhere, with showers in several places.

Temperature fallen slightly; readings ranging from 58° at Mullaghmore, Dover, and in London to 50° at Nairn and Leith. Maxima very low generally.

Wind moderate north-westerly on our own and the Scandinavian coasts, but south-easterly in the W. of France. Subsequently backing to W. in the S. of England.

Sea moderate or smooth.

Barometer falling generally. Highest pressures now shown over the S. of France, and lowest over Scandinavia, but new area of low readings forming off our S.W. coasts. Fall continuing all day, and shallow disturbance forming off S. of Ireland in evening.

Friday, July 20.

Weather remaining fair in the N.W. and S.E., but cloudy or overcast elsewhere, with showers at the south-western and rain at some of the northern stations. Rain falling generally later, and thunderstorms occurring in some parts of Great Britain.

Temperature little changed; readings ranging from 64° at Dover to 50° at Nairn. Highest maximum 66° at Cambridge.

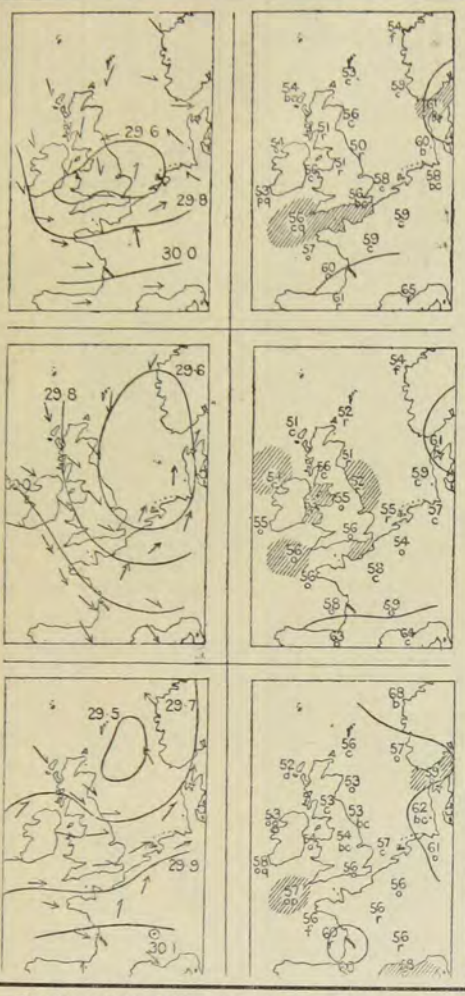
Wind moderate north-westerly on eastern shores of North Sea, but light and variable in our Islands and France. Cyclonic circulation showing itself on English coasts later.

Sea moderate or smooth.

Barometer highest over the S. of France and lowest in the Gulf of Bothnia, but area of low pressure appearing over England during latter part of day, and moving slowly eastwards.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, July 21.

Weather fine in Denmark and the N. of Scotland, cloudy or overcast elsewhere, with heavy rain in the N. of England. Heavy rain extending later to E. of Scotland, and thunderstorms occurring in many parts of Great Britain.

Temperature fallen at all but the northern stations; readings varying from 59° at Roche's Point and Dover to 50° at Shields. Maxima below 60° at the majority of stations; highest point reached at Shields only 52°.

Wind easterly in N., northerly in W., westerly in S., and southerly in E. Blowing strongly in the Channel and Bay of Biscay. Slight northerly gale occurring in N. of England later.

Sea rough in the Channel, moderate to smooth elsewhere.

Barometer rising in the W. of Ireland and also over France, but falling at all the more eastern and northern stations. Large and complex area of low pressure crossing England in an easterly direction, and rise of barometer extending eastward later.

Sunday, July 22.

Weather still rainy in the eastern part of Great Britain, and cloudy in most other districts, with showers in one or two places. Heavy rain falling later in N. of Scotland and S. of Ireland.

Temperature changed irregularly; readings varying from 57° at Hurst Castle to 51° at Aberdeen. Highest maxima 66° at Dover, 65° at Hurst Castle, and 64° at Cambridge and in London.

Wind southerly on eastern shores of North Sea, but north-westerly or northerly in our Islands and France. Blowing strongly in E. of England.

Sea rough on all the more exposed parts of our coasts.

Barometer falling in E. of Scotland and also in Denmark, rising elsewhere. Area of low pressure noticed on previous day lying over the North Sea, and moving slowly northwards. Fresh fall of barometer appearing in Ireland in evening.

Monday, July 23.

Weather cloudy or overcast at all but the south-eastern stations, with showers on our S.W. coasts, and drizzling rain at Stornoway. Showers falling in most places later, with local thunderstorms over Great Britain.

Temperature little changed, readings ranging from 58° at Valencia to 49° at Leith. Maxima still very low for time of year.

Wind westerly in our Islands and France, but south-westerly or southerly on eastern shores of North Sea; blowing strongly in Bay of Biscay.

Sea rough at the mouth of the Channel, moderate or smooth elsewhere.

Barometer falling on our western and northern coasts, but rising to the eastward and southward of our Islands. Centre of low pressure area now lying between the Scotch and Norwegian coasts, but shallow subsidiary disturbance passing across the S. of England.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	59	46	56·4	47·9	52·2	−1·8	7	0·71	+0·41	•	•
	Stornoway	59	44	56·0	45·6	50·8	−4·1	6	0·76	+0·03	33	29
	Wick	63	38	59·7	45·3	52·5	−3·0	5	0·95	+0·55	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	60	52	59·3	53·7	56·5	−4·5	7	1·13	+0·61	•	•
	Jersey (Noirmont)	62	51	61·3	53·4	57·4	−4·6	7	0·96	+0·54	29	27

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	60	39	58·9	46·9	52·9	− 5·2	7	2·99	+2·39	*	*
	Aberdeen	64	42	60·3	47·4	53·9	− 3·7	5	1·53	+0·90	18	15
	Leith	64	44	60·1	47·3	53·7	− 5·3	6	1·26	+0·66	*	*
2. ENGLAND, N.E.	Alnwick Castle	62	44	57·3	48·1	52·7	− 5·3	5	2·13	?	*	*
	Shields	64	45	59·1	47·9	53·1	− 5·4	5	2·33	+1·81	*	*
	Durham	66	40	61·9	43·7	52·8	− 6·4	6	2·19	+1·60	32	28
	Scarborough ℳ	65	46	61·1	49·0	55·1	− 4·8	5	1·39	+0·77	*	*
	York	66	41	62·4	46·1	54·3	− 7·7	5	2·14	+1·66	40	35
	Spurn Head	?63	49	?60·6	50·4	?55·5	? − 5·0	6	0·32	?	*	*
3. ENGLAND, E.	Hillington ℳ	67	39	63·2	45·9	54·6	− 6·8	6	1·51	+0·93	33	30
	Yarmouth	63	45	60·9	48·7	54·8	− 7·0	6	1·27	+0·69	*	*
	Geldeston	65	41	62·8	47·6	55·2	− 6·8	6	0·76	+0·22	36	32
	Cambridge	66	43	63·6	47·3	55·5	− 7·8	3	0·87	+0·35	22	20
	Rothamsted	65	44	63·1	47·4	55·3	− 7·7	5	1·61	+1·00	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	67	39	63·4	45·4	54·4	− 7·7	4	1·19	+0·58	*	*
	Loughborough	66	42	62·4	48·6	55·5	− 7·4	4	1·32	+0·82	*	*
	Leicester	67	40	62·1	48·0	55·1	− 7·6	6	1·68	+1·08	21	19
	Birmingham (Oscott)	*63	45	60·0	47·8	53·9	− 8·1	5	1·73	+1·11	*	*
	Cheadle ℳ	62	43	57·7	46·1	51·9	− 9·1	4	0·17	?	*	*
	Churchstoke ℳ	64	44	59·3	46·5	52·9	− 7·9	4	1·05	?	17	15
	Hereford ℳ	66	44	62·3	46·9	54·6	− 7·7	5	1·27	+0·72	*	*
	Cirencester	62	44	59·4	47·6	53·5	− 8·3	5	1·53	+0·89	17	15
	Oxford	62	47	61·1	49·7	55·4	− 6·7	4	0·88	+0·33	16	15
5. ENGLAND, S.	London†	66	48	63·9	50·7	57·3	− 6·7	4	0·62	+0·07	13	12
	Marlborough ℳ	64	43	61·3	47·8	54·6	− 6·6	5	1·70	+1·15		
	Strathfield Turgiss ℳ	69	45	64·9	48·0	56·5	− 5·5	5	0·88	+0·36	*	*
	Dover	67	51	64·7	52·7	58·7	− 3·3	5	0·44	−0·01	*	*
	Hastings (St. Leonard's)	63	50	61·9	52·1	57·0	− 4·6	5	0·27	−0·13	29	26
	Southampton	68	49	63·7	51·2	57·5	− 4·5	5	0·83	?	29	26
	Hurst Castle	67	49	62·9	52·4	57·7	− 3·9	6	0·46	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	61	45	57·9	47·4	52·7	− 4·5	3	0·11	?	*	*
	Glasgow	63	43	60·5	47·1	53·8	− 4·4	5	0·63	−0·27	44	38
	Ardrossan	63	43	60·0	48·4	54·2	− 3·8	2	0·27	−0·39	*	*
	Silloth (Cumberland)	66	43	62·6	48·5	55·6	− 4·8	3	0·60	0·00	43	37
	Douglas (Isle of Man)	62	43	61·0	47·1	54·1	− 3·6	3	0·08	−0·48	51	45
7. ENGLAND, N.W.	Barrow-in-Furness	61	49	60·0	51·0	55·5	− 4·3	3	0·46	?	*	*
	Stonyhurst	61	46	59·3	47·9	53·6	− 6·2	3	1·08	+0·13	35	31
	Blackpool ℳ	61	44	59·0	49·9	54·5	− 5·8	5	0·60	−0·10	37	33
	Manchester	62	45	58·6	46·9	52·8	− 8·2	6	1·11	+0·36	*	*
	Liverpool Obsy (Bidston)	62	49	59·0	50·7	54·9	− 6·1	6	1·69	+0·74	*	*
	Llandudno ℳ	63	48	59·8	51·1	55·5	− 5·5	2	0·24	−0·26	32	29
	Holyhead	62	52	59·3	53·7	56·5	− 3·3	2	0·25	−0·14	*	*
8. ENGLAND, S.W.	Pembroke	61	50	58·1	52·3	55·2	− 5·0	7	1·03	+0·50	34	31
	Arlington (N. Devon)	62	44	59·6	47·7	53·7	− 7·9	7	1·87	?	*	*
	Cullompton ℳ	64	45	62·3	48·5	55·4	− 6·7	7	1·12	?	28	25
	Falmouth	63	50	61·3	52·8	57·1	− 4·4	7	0·90	+0·29	20	18
	Plymouth	66	50	64·2	53·1	58·7	− 3·3	7	0·52	−0·16	22	19
	Prawle Point	64	49	61·0	51·0	56·0	− 4·2	6	0·55	?	*	*
9. IRELAND, N.	Londonderry	63	42	60·8	46·9	53·9	− 5·1	6	0·34	−0·45	*	*
	Mullaghmore	61	50	59·4	51·6	55·5	− 4·5	4	0·24	?	*	*
	Markree Castle	61	42	59·8	46·8	53·3	− 7·1	4	0·37	−0·24	33	29
	Brookeborough	62	42	59·9	45·8	52·9	− 7·7	2	0·16	?	*	*
	Armagh	61	45	59·8	48·0	53·9	− 6·6	4	0·27	−0·44	29	26
	Donaghadee	63	40	60·7	46·6	53·7	− 4·9	2	0·09	?	*	*
10. IRELAND, S.	Dublin	63	49	61·6	51·3	56·5	− 3·7	5	1·01	+0·47	31	28
	Parsonstown	64	44	61·0	48·1	54·6	− 5·2	5	1·25	+0·57	27	24
	Roche's Point	65	49	61·9	50·9	56·4	− 4·7	6	0·82	+0·16	*	*
	Valencia	64	50	60·6	51·7	56·2	− 3·1	7	1·23	+0·38	23	21
	Foynes	63	49	59·0	50·5	54·8	− 4·9	7	1·45	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 30.] WEEK ENDING MONDAY, JULY 30, 1883. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	66	44	61	49	55	3 below.	3	7	1 more.	26	23
	2. ENGLAND, N.E.	70	44	61	50	55	4 below.	3	4	2 less.	31	28
	3. ENGLAND, E.	73	43	64	49	57	5 below.	5	2	3 less.	32	29
	4. MID. COUNTIES	74	41	65	48	57	5 below.	3	4	2 less.	33	30
	5. ENGLAND, S.	75	45	67	51	59	3 below.	3	2	3 less.	35	33
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	71	42	64	48	56	2 below.	2	1	6 less.	49	44
	7. ENGLAND, N.W.	67	42	63	51	57	4 below.	2	1	6 less.	41	37
	8. ENGLAND, S.W.	72	45	64	51	58	4 below.	2	4	2 less.	56	52
	9. IRELAND, N.	70	37	62	48	55	5 below.	3	2	5 less.	28	25
	10. IRELAND, S.	69	43	64	51	57	3 below.	3	3	4 less.	33	30

General Remarks.

Weather has been cloudy and unsettled generally, with occasional rain and local thunderstorms.

Temperature has again been below the mean in all districts, the deficit ranging from 2° in "Scotland, W." to 5° in "England, E.", the "Midland Counties", and "Ireland, N." The highest maxima which were registered either on the 28th or 29th, ranged from 75° in "England, S." to 66° in "Scotland, E." The lowest readings were recorded on the 29th, and varied between 37° in "Ireland, N." and 45° in "England S." and "England, S.W."

Rainfall has been less than the mean in all districts excepting "Scotland, E." The driest weather has been experienced in the W. of Scotland and N.W. of England.

Bright sunshine has been rather more prevalent than it was last week, the percentages of possible duration ranging from 52 in "England, S.W." to 23 in "Scotland, E."

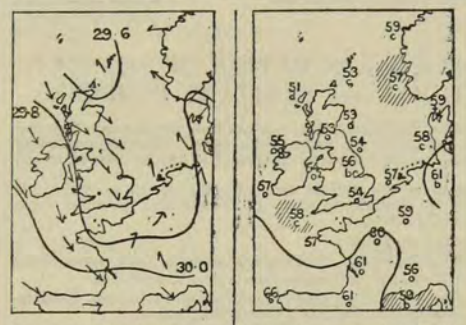
Depressions observed.—During the greater part of the week pressure has been highest off our W. and S.W. coasts, and lowest over Scandinavia or the Baltic, and the prevailing winds have, therefore, been north-westerly or northerly. On the 29th and 30th, however, a shallow depression passed slowly across Ireland and England from the westward, the wind during its passage showing a cyclonic circulation. In force the wind has been light or moderate except on the 27th, when a moderate northerly gale blew on the E. coast of England.

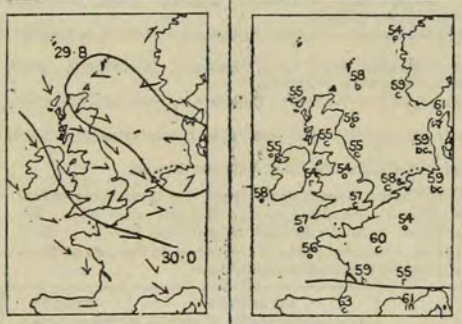
R 8396. 100 & 470.—8/83. Wt. 32. E. & S.

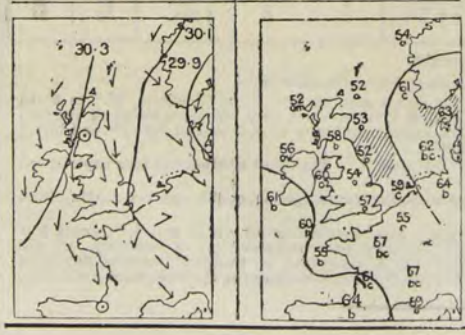
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending July 30, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, July 24.

Weather cloudy generally, with showers in the N. of Scotland and S.E. of England. Rain falling later at all the northern and most of the eastern stations.

Temperature little changed; readings ranging from 60° at Prawle Point and Dover to 51° at Stornoway and Nairn. Maxima rather low for time of year.

Wind southerly on eastern shores of North Sea, but north-westerly in our Islands and France; strong in force in Bay of Biscay.

Sea rather rough at Scilly, moderate to smooth elsewhere.

Barometer falling at all but our western and northern stations. Pressure highest in the S. of France, with depression lying off the N. of Scotland and another over the Baltic. Former subsequently dispersing, but latter travelling in a north-westerly direction across Scandinavia.

Wednesday, July 25.

Weather fine in Sweden and Denmark, cloudy or overcast elsewhere, with rain at Holyhead. Showers falling later at many of our northern and eastern stations, and thunder-storms occurring in some places.

Temperature scarcely changed; readings ranging from 63° at Dover to 52° at Nairn. Highest maxima 66° at Hurst Castle and 65° at several other of our southern stations.

Wind easterly in Denmark and the S. of Norway, but north-westerly in our Islands and France; light or moderate in force generally.

Sea moderate or smooth on all our coasts.

Barometer rising generally. Readings highest over the Bay of Biscay, with large area of low pressure over the North Sea, and well-defined depression off the W. of Norway. Rise continuing all day.

Thursday, July 26.

Weather fair on the whole, but a good deal of cloud locally. Sky clearing in E. later.

Temperature risen generally; readings ranging from 61° at Liverpool and Hurst Castle to 52° at Ardrossan. Highest maxima 69° at Hurst Castle, 68° at Prawle Point, and 67° in London and at Cambridge.

Wind north-westerly or northerly on all coasts and light or moderate in force.

Sea slight or smooth.

Barometer rising generally. Readings highest off our S.W. coasts and lowest over the Baltic, the intervening gradients being moderate. Rise continuing all day.

Friday, July 27.

Weather fine in Denmark, France, and the S.W. of our Islands, cloudy or overcast elsewhere, with rain at some of our eastern stations. Thunderstorms occurring in S. of England later.

Temperature fallen N.; readings ranging from 61° at Liverpool and Valencia to 52° at Sumburgh Head, Stornoway, and Shields.

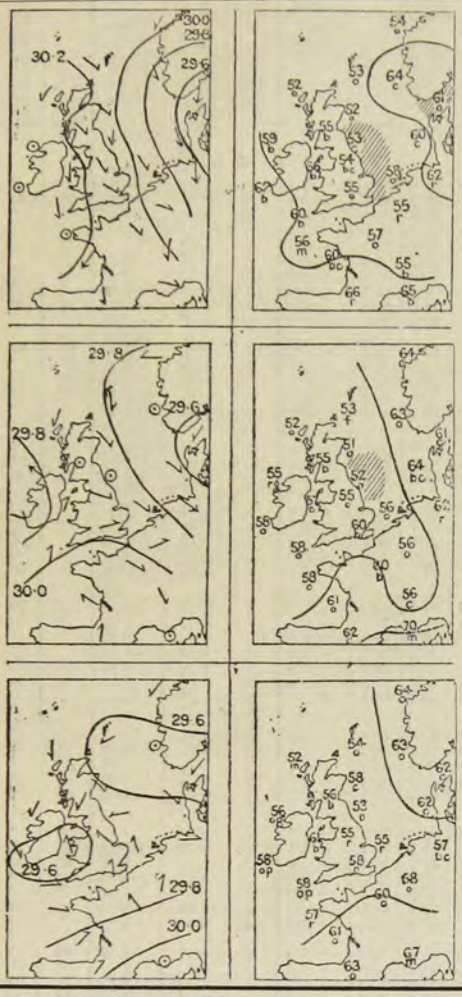
Wind northerly; light in W. and S., but fresh or strong in E.

Sea rather rough at Shields, slight or smooth elsewhere.

Barometer falling Sweden and Denmark, but rising in our Islands and France. Pressure highest off our W. coasts, but depression appearing over the Baltic and gradients much steeper than on previous day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, July 28.

Weather fine at our western, south-western, and most of the French stations, cloudy or overcast elsewhere, with rain on the shores of the Baltic. Sky clearing in E. and S.E. later.

Temperature fallen N. and E.; readings varying from 63° at Prawle Point to 52° in the N. of Scotland. Highest maxima 73° at Hurst Castle, and 72° in London.

Wind northerly; light in W., but fresh or strong in E. South-easterly breeze setting in at Valencia later.

Sea rough off the E. of England. Slight or smooth elsewhere.

Barometer falling at all but the French stations. Readings still highest off our W. coast and lowest over the Baltic, but some shallow depressions passing down the North Sea. Pressure giving way quickly in Ireland later, and disturbance advancing from the Atlantic.

Sunday, July 29.

Weather fair over central England, cloudy or overcast elsewhere, with rain at several of the western stations. Rain extending to S. later.

Temperature changed irregularly; readings varying from 60° at Dover and in London to 49° at Leith. Highest maxima 72° at Cambridge, 71° in London, and 70° at York, Loughborough, and Hurst Castle.

Wind northerly or north-westerly in E., but southerly or south-easterly in W.; fresh at some western stations.

Sea rather rough on the E. coast of England, moderate or smooth elsewhere.

Barometer falling at all but the Swedish stations. Readings highest France, with depression over the S. of Sweden, and new disturbance approaching the W. of Ireland. Fall continuing throughout day.

Monday, July 30.

Weather cloudy or overcast generally, with rain over central England, and showers at Valencia, Scilly, and Dover. Rain subsequently falling in several places locally, and thunderstorm occurring at Scilly.

Temperature little changed, readings ranging from 61° at Holyhead to 52° at Stornoway. Maxima lower than on previous day.

Wind south-westerly in S., but southerly in E., variable in N. and northerly in W.; light or moderate in force generally.

Sea slight or smooth.

Barometer falling at all stations. Readings highest S. of France, with large area of low pressure over northern portion of North Sea, and shallow depression over our W. coasts. Latter filling up during afternoon, and barometer inclined to rise generally.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	62	46	59·3	49·3	54·3	+0·3	2	0·03	−0·29	•	•
	Stornoway	58	45	56·0	47·7	51·9	−3·0	3	0·16	−0·61	17	15
	Wick	62	47	58·0	48·7	53·4	−2·1	2	0·13	−0·29	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	64	53	61·9	54·6	58·3	−2·7	2	0·25	−0·27	•	•
	Jersey (Noirmont)	66	52	63·7	53·3	58·5	−3·6	2	0·29	−0·17	66	62

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 nas been calculated, are as follow :

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	60	49	59·3	50·9	55·1	− 2·9	3	1·62	+1·02	*	*
	Aberdeen	64	47	60·4	48·9	54·7	− 2·8	2	0·19	−0·47	26	23
	Leith	66	44	?62·0	46·7	?54·4	? − 4·5	3	0·32	−0·28	*	*
2. ENGLAND, N.E.	Alnwick Castle	60	48	58·0	50·1	54·1	− 3·9	3	0·17	?	*	*
	Shields	61	47	58·1	48·9	53·5	− 5·1	2	0·43	−0·11	*	*
	Durham	69	46	64·2	47·9	56·1	− 2·9	3	0·13	−0·44	30	27
	Scarborough ℔	61	48	59·3	50·9	55·1	− 4·8	2	0·27	−0·34	*	*
	York	70	44	64·4	48·3	56·4	− 5·6	4	1·22	+0·74	32	29
	Spurn Head	62	50	60·0	52·4	56·2	− 4·2	2	0·07	?	*	*
3. ENGLAND, E.	Hillington ℔	73	46	64·3	48·6	56·5	− 4·7	6	0·26	−0·30	30	27
	Yarmouth	63	47	61·1	50·7	55·9	− 5·8	7	0·31	−0·21	*	*
	Geldeston	69	45	64·4	49·7	57·1	− 4·8	4	0·26	−0·22	32	29
	Cambridge	72	43	67·0	48·3	57·7	− 5·7	3	0·12	−0·39	34	31
	Rothamsted	71	46	65·0	48·8	56·9	− 6·1	5	0·23	−0·37	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	70	41	65·4	47·9	56·7	− 5·3	1	0·05	−0·55	*	*
	Loughborough	70	41	65·3	48·9	57·1	− 5·6	3	0·20	−0·27	*	*
	Leicester	72	45	66·4	50·1	58·3	− 4·4	4	0·65	+0·06	29	26
	Birmingham (Oscott)											
	Cheadle ℔	68	44	62·6	47·4	55·0	− 5·9	4	0·18	?	*	*
	Churchstoke ℔	69	43	63·2	46·7	55·0	− 5·8	2	0·25	?	31	28
	Hereford ℔	74	45	66·7	47·6	57·2	− 4·9	4	1·10	+0·58	*	*
	Cirencester	70	43	63·9	47·0	55·5	− 6·4	3	0·36	−0·29	35	32
	Oxford	70	49	65·0	50·7	57·9	− 4·1	4	0·30	−0·24	35	32
5. ENGLAND, S.	London†	72	47	67·3	50·6	59·0	− 5·0	1	0·03	−0·48	32	30
	Marlborough ℔	72	45	66·5	47·7	57·1	− 3·9	1	0·25	−0·32	29	27
	Strathfield Turgiss ℔	75	45	69·0	48·1	58·6	− 3·4	2	0·23	−0·27	*	*
	Dover	66	52	63·9	53·1	58·5	− 3·5	7	0·43	−0·02	*	*
	Hastings (St. Leonard's)	67	52	64·6	53·0	58·8	− 3·0	3	0·26	−0·14	37	34
	Southampton	74	49	68·4	51·6	60·0	− 2·0	3	0·16	?	42	39
	Hurst Castle	73	49	63·3	52·0	60·2	− 1·4	4	0·27	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	66	42	62·0	47·5	54·8	− 2·4	2	0·14	?	*	*
	Glasgow	71	46	65·2	48·8	57·0	− 1·1	3	0·21	−0·69	40	35
	Ardrossan	68	42	63·1	48·9	56·0	− 2·0	0	—	−0·71	*	*
	Silloth (Cumberland)	71	43	67·1	47·0	57·1	− 3·3	2	0·26	−0·36	48	43
	Douglas (Isle of Man)	67	42	64·3	49·5	56·9	− 1·1	1	0·01	−0·60	59	53
7. ENGLAND, N.W.	Barrow-in-Furness	65	49	62·4	52·9	57·7	− 2·3	1	0·01	?	*	*
	Stonyhurst	64	44	62·6	48·3	55·5	− 4·3	2	0·19	−0·79	37	33
	Blackpool ℔	65	45	62·4	49·3	55·9	− 4·6	0	—	−0·63	42	38
	Manchester	67	42	62·7	47·7	55·2	− 5·8	4	0·10	−0·65	*	*
	Liverpool Obs? (Bidston)	67	51	63·1	53·0	58·1	− 2·9	0	—	−0·86	*	*
	Llandudno ℔	67	51	63·7	52·8	58·3	− 2·7	2	0·02	−0·45	44	40
	Holyhead	64	? 50	62·0	?52·6	57·3	− 2·5	3	0·09	−0·32	*	*
8. ENGLAND, S.W.	Pembroke	62	45	59·9	51·3	55·6	− 4·6	2	0·12	−0·33	65	61
	Arlington (N. Devon)	66	45	62·9	48·9	55·9	− 5·6	3	0·67	?	*	*
	Cullompton ℔	70	45	65·8	49·0	57·4	− 4·7	3	0·50	?	44	41
	Falmouth	68	52	63·8	53·4	58·6	− 3·1	1	0·20	−0·42	62	58
	Plymouth	72	47	67·8	51·6	59·7	− 2·3	2	0·65	−0·01	52	49
	Prawle Point	69	49	65·9	50·9	58·4	− 1·8	2	0·17	?	*	*
9. IRELAND, N.	Londonderry	68	44	63·3	47·1	55·2	− 3·8	4	0·12	−0·70	*	*
	Mullaghmore	63	52	60·1	53·3	56·7	− 3·2	4	0·26	?	*	*
	Markree Castle	68	37	61·7	46·2	54·0	− 6·2	4	0·43	−0·26	27	24
	Brookeborough	70	40	62·8	43·7	53·3	− 7·1	3	0·16	?	*	*
	Armagh	68	45	62·1	46·9	54·5	− 5·9	2	0·05	−0·65	29	26
	Donaghadee	63	45	61·6	49·3	55·5	− 3·0	1	0·02	?	*	*
10. IRELAND, S.	Dublin	69	46	62·9	50·6	56·8	− 3·3	3	0·09	−0·44	36	33
	Parsonstown	69	43	65·0	49·0	57·0	− 2·9	2	0·25	−0·46	35	32
	Roche's Point	68	50	65·6	51·9	58·8	− 2·2	2	0·25	−0·45	*	*
	Valencia	66	49	63·6	52·7	58·2	− 1·3	3	0·67	−0·24	28	25
	Foynes	65	45	62·5	50·4	56·5	− 3·0	3	0·39	?	*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 31.] WEEK ENDING MONDAY, AUGUST 6, 1883. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	69	48	65	52	59	1 above.	3	5	1 less.	35	32
	2. ENGLAND, N.E.	74	48	65	52	59	0 (average).	2	2	4 less.	31	29
	3. ENGLAND, E.	73	47	68	53	61	2 below.	4	4	1 less.	27	25
	4. MID. COUNTIES	77	43	67	52	60	2 below.	4	3	3 less.	15	14
	5. ENGLAND, S.	75	48	68	56	62	1 below.	4	2	3 less.	22	21
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	70	47	63	52	57	1 below.	4	2	6 less.	36	33
	7. ENGLAND, N.W.	70	49	64	53	59	2 below.	3	3	4 less.	37	34
	8. ENGLAND, S.W.	72	46	65	53	59	2 below.	4	2	5 less.	21	20
	9. IRELAND, N.	70	47	63	52	58	2 below.	4	1	6 less.	11	10
	10. IRELAND, S.	68	48	64	54	59	1 below.	4	9	2 more.	17	16

General Remarks.

Weather has been generally cloudy or dull, although the amount of rainfall reported has been small. Over northern and central England some thunderstorms have been experienced.

Temperature, though higher than that of last week, has again been below the mean in all districts except "Scotland, E." and "England, N.E.", the deficit ranging between 1° and 2°. The maxima, which were registered on different days in the various districts, ranged from 68° in "Ireland, S." to 75° in "England, S." and 77° in the "Midland Counties." The minima, which were also recorded on various days, ranged from 49° in "England, N.W." to 46° in "England, S.W." and 43° in the "Midland Counties."

Rainfall has been slightly more than the mean in "Ireland, S.", but less elsewhere.

Bright sunshine has been very deficient in all districts, the percentages of possible duration varying from 10 in "Ireland, N.", 14 in the "Midland Counties", and 16 in "Ireland, S.", to 33 in "Scotland, W." and 34 in "England, N.W."

Depressions observed.—At the commencement of the period, pressure was highest over the S. of France and lowest over the North Sea, Scotland, and the greater part of England. As the week advanced, the barometer rose generally and the highest pressure gradually moved to the S.W. of England, reaching Ireland by the 3rd, the barometer at the same time being lowest over Sweden. After this date, however, depressions appeared off our N.W. coasts, and the area of highest pressure was again slowly transferred to the S. of France. The winds during the first two days were light or moderate from between N.W. and W., very light and variable on the 2nd and 3rd, and during the remainder of the period generally moderate or light from the south-westward or westward.

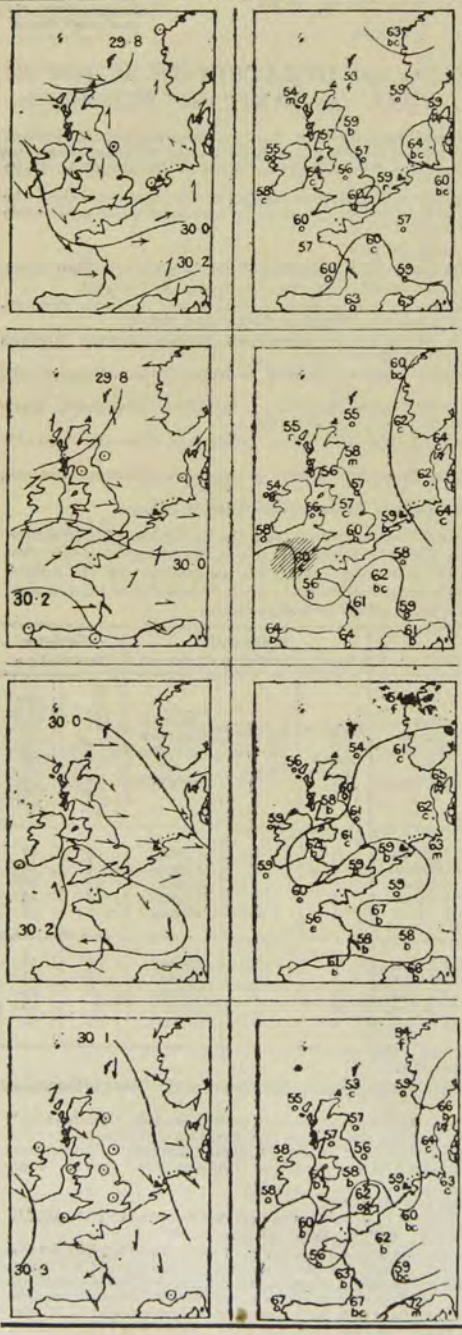
R 8476 100 & 470.—8/83. Wt. 32. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending August 6, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, July 31.

Weather fair on the whole, but a good deal of cloud in some places. Rain fell in small quantities during the day in the extreme N. and over the southern districts.

Temperature risen a little at most stations; readings ranging from 60° in the S.E. of England to 53° in the Shetlands. Maxima low for the time of year.

Wind light and variable in the N.E. and E., but blowing with moderate strength from the north-westward on western coasts, and increasing to a slight gale from W.N.W. over the Bay of Biscay in the course of the day.

Sea moderate at Holyhead and Scilly, smooth elsewhere.

Barometer rising over our Islands and France, falling a little in Sweden. Slight depressions over North Sea and in the extreme N., filling up subsequently.

Wednesday, August 1.

Weather varying considerably in different localities, with rain at Stornoway and showers at Dover. Slight rain falling during the day in extreme N. and W.

Temperature risen a little generally; readings ranging from 61° at Wick to 54° at Mullaghmore. Highest maxima 69° in London, 68° at Nairn and Leith, and 67° at Hurst Castle, Cambridge, and Dover.

Wind light or moderate on all coasts, and chiefly westerly in direction.

Sea rather rough at Scilly, slight or smooth elsewhere.

Barometer rising generally. Readings highest over S. of France and extreme N. of Scandinavia; lowest in N.W. of Scotland and S. of Sweden. Rise continuing throughout day.

Thursday, August 2.

Weather cloudy over the United Kingdom, but fine over France. Sky clearing subsequently in the S.E. of England. Rather heavy rain falling in the N.E. in the course of the day during a thunderstorm, and a few slight showers locally.

Temperature changed irregularly; readings ranging from 67° at Dover to 54° at Sumburgh Head. Highest maxima 72° in London, 70° at Loughborough, 69° at Oxford and York, and 68° at Leith, Parsonstown, Hurst Castle, and Cambridge.

Wind light in force generally; north-westerly in Scotland and over Scandinavia, westerly in E. of England, very variable in the S.W., but easterly breezes reported from Bay of Biscay.

Sea slight or smooth.

Barometer rising generally, but slight fall commencing over France later. Highest pressure now covering the S. of England and greater part of France.

Friday, August 3.

Weather very cloudy except in N.E. of England, with rain falling at Pembroke and Oxford. A few showers falling during day in the extreme W., N., and S.E., but sky clearing somewhat in many places towards evening.

Temperature fallen a little in the N., little changed elsewhere; readings ranging from 62° in London and at Liverpool to 54° in the Shetlands. Maxima of 73° at Cambridge, 71° in London and at York recorded during day.

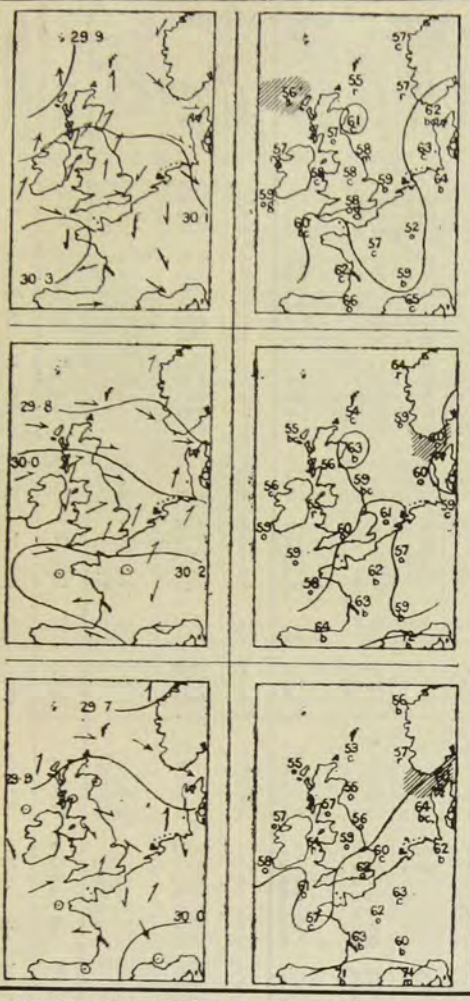
Wind moderate north-westerly over the North Sea and north-easterly in France, but light and variable in our Islands.

Sea smooth generally.

Barometer rising at all but the Swedish stations. Large area of uniformly high readings covering the whole of the United Kingdom, with lowest pressures over Baltic. Slight fall taking place in N. later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, August 4.

Weather cloudy with mist over central England, and rain in the extreme N. of Scotland. Showers falling in most places later.

Temperature little changed, readings ranging from 61° at Aberdeen, Loughborough, Roche's Point, and Hurst Castle, to 55° in the Shetlands. Highest maxima 73° at Loughborough and 72° in London.

Wind south-westerly in the W. and N., but westerly in the S., and north-easterly or northerly in France; light or moderate in force generally, but blowing strongly at Stornoway and Mullaghmore.

Sea rather rough at Stornoway, slight or smooth elsewhere.

Barometer falling at all our more western and southern stations, but rising in the S. and E. High pressure area moving southwards and series of depressions appearing off our N.W. coasts. Fall becoming general later.

Sunday, August 5.

Weather fine over France and the N.E. of our Islands, cloudy elsewhere, with rain in many parts of England.

Temperature changed little and irregularly; readings ranging from 63° at Aberdeen and 62° at Yarmouth to 54° in the Shetlands. Highest maxima registered 73° at York, 69° at Cambridge, and 68° in London.

Wind westerly over our Islands and the North Sea, but easterly in the W. of France; light or moderate in force in most places.

Sea slight or smooth generally.

Barometer rising slightly in France, falling elsewhere. Highest pressure now shown over France, with large area of low readings lying over Scandinavia, and small shallow depressions passing across our Islands.

Monday, August 6.

Weather fine in France, but cloudy over the greater part of our Islands, with rain in several parts of England and Ireland.

Temperature fallen in most places; readings ranging from 62° in London to 52° at Nairn. Highest maximum 70° at Cambridge.

Wind rather variable, but westerly at the majority of stations; light in force on our coasts, but strong in the S. of Norway.

Sea smooth or nearly so.

Barometer falling generally. Highest pressures found over the south of France and lowest over Scandinavia, with shallow depressions passing across our Islands. Slight rise taking place in W. later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	60	47	59·4	49·4	54·4	+0·3	4	0·11	−0·30	•	•
	Stornoway	60	47	58·7	50·7	54·7	−0·3	5	0·48	−0·22	7	6
	Wick	70	44	63·6	50·1	56·9	+1·4	3	0·24	−0·24	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	66	53	64·6	55·6	60·1	−1·0	4	0·07	−0·44	•	•
	Jersey (Noirmont)	69	53	65·4	55·4	60·4	−0·8	2	0·08	−0·41	65	63

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	69	48	65·4	52·7	59·1	+ 1·2	5	0·56	−0·08	*	*
	Aberdeen	68	48	64·1	50·9	57·5	+ 0·2	1	0·56	−0·14	35	32
	Leith	69	50	66·6	52·0	59·3	+ 0·4	2	0·44	−0·16	*	*
2. ENGLAND, N.E.	Alnwick Castle	66	50	63·6	51·9	57·8	+ 0·2	2	0·09	?	*	*
	Shields	68	51	63·6	51·6	57·6	− 0·8	1	0·30	−0·25	*	*
	Durham	74	48	69·0	50·5	59·8	+ 1·5	3	0·07	−0·51	30	28
	Scarborough ℔	72	52	64·5	54·1	59·3	− 0·4	2	0·16	−0·42	*	*
	York	73	48	68·3	52·1	60·2	− 1·1	3	0·13	−0·38	32	29
	Spurn Head	67	52	63·3	54·0	58·7	− 1·6	1	0·12	?	*	*
3. ENGLAND, E.	Hillington ℔	72	47	67·5	50·8	59·2	− 1·8	4	0·48	−0·07	27	25
	Yarmouth	65	53	64·4	54·4	59·4	− 2·1	5	0·45	−0·03	*	*
	Geldeston	70	50	67·8	53·9	60·9	− 0·8	4	0·40	−0·03	31	29
	Cambridge	73	49	69·4	53·3	61·4	− 1·8	3	0·21	−0·27	23	22
	Rothamsted	73	49	68·9	53·8	61·4	− 1·2	4	0·34	−0·24	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	72	46	68·3	50·0	59·2	− 2·5	5	0·20	−0·36	*	*
	Loughborough	77	47	68·9	53·3	61·1	− 1·3	3	0·32	−0·13	*	*
	Leicester	76	46	69·1	52·5	60·8	− 1·7	4	0·39	−0·21	16	15
	Birmingham (Oscott)										*	*
	Cheadle ℔	71	47	63·7	50·9	57·3	− 3·2	3	0·32	?	*	*
	Churchstoke ℔	69	47	66·0	52·2	59·1	− 1·6	4	0·16	?	18	17
	Hereford ℔	74	45	69·4	52·7	61·1	− 1·0	4	0·40	−0·10	*	*
	Cirencester	70	43	65·4	51·7	58·6	− 3·1	6	0·16	−0·49	12	11
	Oxford	71	50	67·3	55·0	61·2	− 0·8	5	0·15	−0·37	12	11
5. ENGLAND, S.	London†	75	52	70·7	54·9	62·8	− 1·1	2	0·03	−0·45	18	17
	Marlborough ℔	74	48	68·1	53·3	60·7	− 0·3	3	0·16	−0·41	17	16
	Strathfield Turgiss ℔										*	*
	Dover	67	53	65·1	56·3	60·7	− 1·3	4	0·40	−0·05	*	*
	Hastings (St. Leonard's)	71	55	65·4	57·0	61·2	− 0·5	4	0·15	−0·26	30	29
	Southampton	72	51	69·2	56·0	62·6	+ 0·5	5	0·40	?	23	22
	Hurst Castle	69	51	67·3	55·9	61·6	0·0	3	0·11	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	61	48	60·2	52·0	56·1	− 1·2	6	0·23	?	*	*
	Glasgow	66	47	63·5	50·6	57·1	− 0·9	3	0·06	−0·84	32	29
	Ardrossan	65	49	62·4	51·9	57·2	− 0·8	1	0·01	−0·77	*	*
	Silloth (Cumberland)	70	47	66·3	51·7	59·0	− 1·2	4	0·35	−0·29	34	31
	Douglas (Isle of Man)	70	47	64·3	51·3	57·8	− 0·2	4	0·37	−0·32	42	39
7. ENGLAND, N.W.	Barrow-in-Furness	68	53	63·6	54·1	58·9	− 1·3	3	0·23	?	*	*
	Stonyhurst	68	50	64·4	51·6	58·0	− 1·8	4	0·23	−0·78	35	32
	Blackpool ℔	65	43	63·1	51·6	57·4	− 3·3	4	0·29	−0·27	46	42
	Manchester	70	49	64·9	51·6	58·3	− 2·7	2	0·20	−0·54	*	*
	Liverpool Obsy (Bidston)	67	52	63·7	54·7	59·2	− 1·8	4	0·47	−0·28	*	*
	Llandudno ℔	68	53	63·6	54·7	59·2	− 1·8	2	0·17	−0·28	30	28
	Holyhead	65	53	62·1	55·3	58·7	− 1·3	3	0·50	+0·04	*	*
8. ENGLAND, S.W.	Pembroke	63	54	61·9	55·7	58·3	− 1·7	4	0·08	−0·52	20	19
	Arlington (N. Devon)	69	46	63·4	51·3	57·4	− 3·7	5	0·57	?	*	*
	Cullompton ℔	72	46	67·1	51·4	59·3	− 2·8	4	0·22	?	16	15
	Falmouth	67	51	64·7	54·4	59·6	− 1·9	4	0·07	−0·57	25	24
	Plymouth	71	49	63·7	53·9	60·3	− 1·7	3	0·06	−0·59	24	23
	Prawle Point	69	52	64·6	53·3	59·0	− 1·1	2	0·04	?	*	*
9. IRELAND, N.	Londonderry	70	47	63·8	51·6	57·7	− 1·3	4	0·22	−0·58	*	*
	Mullaghmore	63	53	61·7	54·3	58·0	− 1·7	5	0·14	?	*	*
	Markree Castle	66	47	63·1	51·0	57·1	− 2·9	5	0·20	−0·57	12	11
	Brookeborough	67	47	62·6	51·6	57·1	− 3·0	1	0·01	?	*	*
	Armagh	65	50	63·1	53·0	58·1	− 2·0	3	0·03	−0·63	9	8
	Donaghadee	67	49	62·6	52·3	57·5	− 1·0	2	0·13	?	*	*
10. IRELAND, S.	Dublin	67	52	64·6	54·2	59·4	− 0·6	3	1·80	+1·25	22	20
	Parsonstown	68	51	64·3	52·7	58·5	− 1·4	2	0·32	−0·43	10	9
	Roche's Point	66	52	64·1	53·7	58·9	− 2·0	4	0·52	−0·19	*	*
	Valencia	67	52	63·4	54·4	58·9	− 0·6	5	0·41	−0·49	19	18
	Foynes	65	48	62·6	52·3	57·5	− 1·9	5	1·35	?	*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 32.] WEEK ENDING MONDAY, AUGUST 13, 1883. [*Price 2d.* [*Annual subscription, post paid,* 12*s.* 6*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	66	45	62	49	56	2 below.	6	18	11 more.	33	29
	2. ENGLAND, N.E.	74	44	64	50	57	2 below.	6	8	3 more.	41	38
	3. ENGLAND, E.	82	40	67	49	58	4 below.	4	4	0 (average).	54	50
	4. MID. COUNTIES	79	41	66	49	57	4 below.	5	8	2 more.	47	44
	5. ENGLAND, S.	81	44	67	53	60	2 below.	3	4	1 less.	57	54
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	65	40	61	50	56	3 below.	6	32	22 more.	32	29
	7. ENGLAND, N.W.	73	41	62	52	57	4 below.	5	18	12 more.	31	29
	8. ENGLAND, S.W.	70	43	62	52	57	3 below.	4	7	0 (average).	44	41
	9. IRELAND, N.	66	43	62	50	56	4 below.	6	26	18 more.	28	26
	10. IRELAND, S.	67	45	63	51	57	3 below.	6	30	22 more.	34	32

General Remarks.

Weather has been fair in the southern and south-eastern parts of England, unsettled and rainy in the other English districts, and exceptionally wet, especially during the last few days of the period, in Ireland and Scotland.

Temperature has been below the mean in all districts, the deficit ranging from 2° to 4°. The maxima were registered at all except our north-western and northern stations on the last day of the period; over England they were much higher than of late, the thermometer rising to 79° in the "Midland Counties", to 81° in "England, S." and to 82° in "England, E." In Ireland and Scotland, however, the maximum readings were no higher than 65°, 66°, or 67°. The minima, which were recorded in most places on the 12th, were as low as 40° in "Scotland, W." and "England E.", 41° over central and north-western England, and between 43° and 45° elsewhere.

Rainfall has been rather less than the mean in "England, S.", and about equal to its normal value in "England, S.W." and "England, E.", but in all other districts an excess is reported. In Scotland and Ireland the fall has been unusually heavy, amounting to more than three times as much as the mean.

Bright sunshine shows a considerable increase in duration in the S.W., S., and E. of England, and a slight increase in most other districts. The percentages of possible duration varied from 26 in "Ireland, N." and 29 in Scotland and in "England, N.W.", to 50 in "England, E." and to 54 in "England, S."

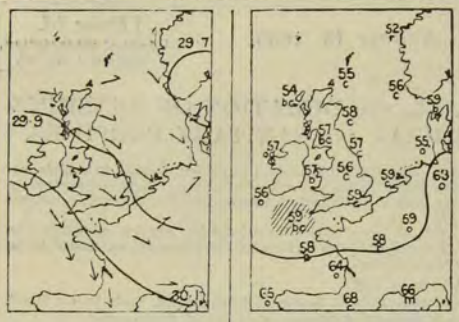
Depressions observed.—Barometric pressure has fluctuated considerably over the western and northern parts of our area, while to the southward of our Islands it has been comparatively high and steady. A series of rather deep and important depressions has passed over our western and northern coasts from the Atlantic, and some small subsidiary disturbances over our southern districts. The winds, which, excepting on the 7th, have been generally fresh or strong at nearly all stations, have varied between S.W., S., and S.E. as the depressions appeared and veered to W. or N.W. as they have travelled eastwards over the North Sea. On some of the more exposed parts of our western and northern coasts, the wind occasionally increased to the force of a gale.

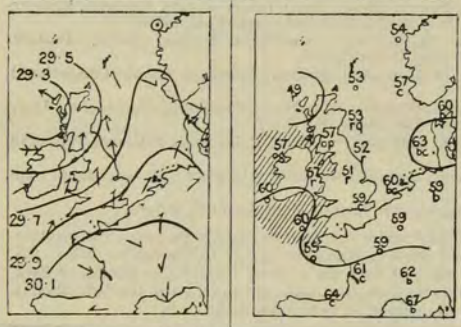
R 8553. 100 & 470.—8/83. Wt. 32. E. & S.

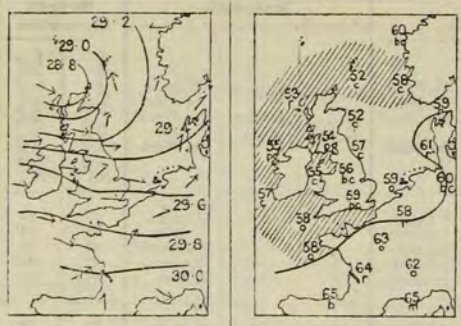
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending August 13, 1883.

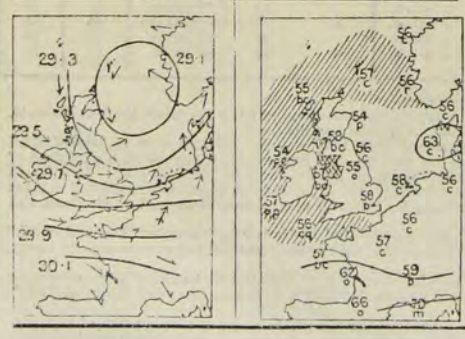
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Tuesday, August 7.

Weather fair generally, but showery in some localities. Showers falling in almost all places later, and thunderstorm occurring at Yarmouth.

Temperature changed irregularly; readings ranging from 61° at Prawle Point to 54° at Stornoway and Nairn. Highest maxima 72° in London, 71° at Hurst Castle, and 70° at Prawle Point.

Wind light or moderate north-westerly in morning, but backing to S.W. on our extreme western and north-western coasts during latter part of day.

Sea moderate to smooth generally.

Barometer falling a little in Scotland and also on eastern shores of North Sea, but rising elsewhere. Highest pressures found over Bay of Biscay, and lowest over Scandinavia and Denmark. Fall of mercury taking place on our extreme western coasts in evening.

Wednesday, August 8.

Weather cloudy or overcast, with rain in the W. and N. Rain becoming general later, and thunderstorms occurring over the S. of England.

Temperature fallen at all but the western stations; readings ranging from 60° at several of the south-western and southern stations to 49° at Nairn. Maxima very low generally.

Wind south-easterly in the N. of Scotland, south-westerly elsewhere; strong in force on all our western and northern coasts. Strong breezes subsequently extending to E. and S., but wind in W. veering to the westward and moderating.

Sea rough W.

Barometer falling at all but the French stations. Readings highest S. of France, with deep depression lying off the W. of Scotland. Depression moving north-eastwards later, and barometer rising in W.

Thursday, August 9.

Weather fair at many of the English and Irish stations, cloudy elsewhere, with showers in several places.

Temperature fallen a little; readings ranging from 59° in London to 51° at Wick and Nairn. Maxima again low for time of year; highest, at Dover and in London, only 66°.

Wind moderate south-westerly on eastern shores of North Sea, and fresh southerly in E. of Scotland; fresh or strong westerly elsewhere. Westerly gales blowing on our N.E. and N.W. coasts later.

Sea rough on many parts of our coasts.

Barometer rising in Ireland, falling elsewhere. Depression of previous day joined by new and deeper disturbance off the N. of Scotland. Low pressure system moving south-eastwards later, and barometer rising quickly in W. of Scotland.

Friday, August 10.

Weather showery at some of the northern stations, but generally fine in the S. Showers extending southwards later, and thunderstorm occurring at Shields.

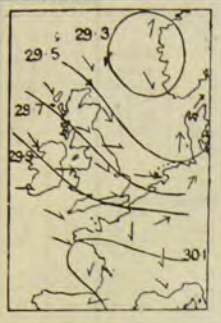
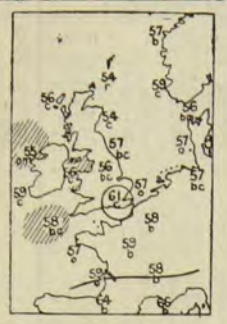
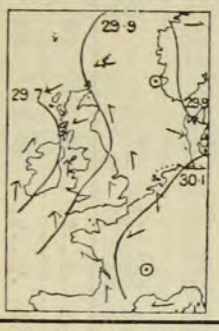
Temperature changed irregularly; readings ranging from 59° at Dover to 52° at Donaghadee. Highest maxima 67° in London and 66° at Cambridge.

Wind northerly in Scotland, north-westerly in Ireland, westerly in England and France, and south-westerly or southerly on eastern shores of North Sea. Blowing strongly or with the force of a gale in most places.

Sea rough on our western, southern, and some parts of our northern coasts.

Barometer rising quickly in Scotland and slightly in France; falling elsewhere. Low pressure area of previous day passing eastwards across the North Sea, and rise of barometer becoming general in afternoon.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	**Weather** during the 24 hours succeeding the date of the Charts.
		**Saturday, August 11.** *Weather* fair on the whole, but very cloudy in the N.W. of our Islands and rainy in the Shetlands. General improvement taking place later. *Temperature* risen slightly in most places: readings ranging from 62° at Dover to 50° at Nairn. Highest maximum 67° at York and in London. *Wind* westerly or north-westerly in our Islands and France, but south-westerly on eastern shores of North Sea; moderate or fresh in force generally. *Sea* still rough on the more exposed parts of our western coasts, slight or smooth elsewhere. *Barometer* rising generally. Low pressure area of previous two days now over Norway and anticyclone shown over France. Rise continuing all day.
		Sunday, August 12. *Weather* cloudy in W. and N.W., with rain in the S. of Ireland, fine elsewhere. Heavy rain falling at all western stations later. *Temperature* changed irregularly; readings ranging from 61° at Hurst Castle to 51° at Nairn. Highest maxima 71° in London and 70° at Cambridge. *Wind* easterly in the W. of France and southerly on our own western coasts; but generally westerly or north-westerly elsewhere. Subsequently backing to S. in all parts of our Islands, and blowing strongly in W. *Sea* rough at Valencia, moderate or smooth elsewhere. *Barometer* rising at all but the south-western stations. Anticyclone lying over France, and low pressure area over Sweden, but new depressions appearing on our western coasts. Fall of barometer taking place at all western and southern stations later.
		**Monday, August 13.** *Weather* fine in France, and the S. and S.E. of England, but dull and very rainy at all our western and northern stations. *Temperature* risen generally, especially in S.E.; readings ranging from 70° in London to 50° in the Shetlands. Highest maxima 81° in London and at Cambridge, and 79° at Loughborough, but thermometer on our extreme western and northern coasts about 20° lower. *Wind* south-easterly in Scotland and the W. of France, southerly or south-westerly elsewhere; fresh or strong in force at some western stations. *Sea* rough on our S.W. coasts. *Barometer* rising on eastern shores of North Sea, falling elsewhere. Pressures highest in the south of France and lowest off the W. of Ireland, the intervening gradients being moderately steep. Fall continuing all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⟹ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
Scotland, N.	Sumburgh Head	61	41	57·3	46·7	52·0	−2·2	6	1·49	+1·01	*	*
	Stornoway	58	45	57·0	47·6	52·3	−2·7	5	2·20	+1·38	37	33
	Wick	62	46	59·7	48·3	54·0	−1·4	6	1·29	+0·73	*	*
Channel Islands	Scilly (St. Mary's)	65	54	62·1	55·6	58·9	−2·2	5	0·41	−0·08	*	*
	Jersey (Noirmont)	77	53	65·6	55·4	60·5	−1·7	3	0·91	+0·40	60	57

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	65	47	60·9	49·0	55·0	− 2·3	6	1·68	+1·03	*	*
	Aberdeen	64	45	62·0	47·9	55·0	− 2·0	6	1·90	+1·19	33	29
	Leith	66	48	64·0	49·9	57·0	− 1·5	6	1·68	+1·10	*	*
2. ENGLAND, N.E.	Alnwick Castle	65	46	62·3	50·4	56·4	− 0·7	6	0·94	?	*	*
	Shields	65	44	63·6	48·6	56·1	− 1·9	6	1·15	+0·60	*	*
	Durham	69	44	65·9	47·0	56·5	− 1·4	6	0·84	+0·29	45	41
	Scarborough ⚓	69	48	63·8	50·7	57·3	− 2·0	4	0·72	+0·20	*	*
	York	74	45	66·6	48·6	57·6	− 3·1	6	0·75	+0·21	37	34
	Spurn Head	74	50	63·4	51·9	57·7	− 2·3	6	0·44	?	*	*
3. ENGLAND, E.	Hillington ⚓	82	40	67·4	46·6	57·0	− 4·0	4	0·82	+0·29	45	41
	Yarmouth	69	47	64·4	50·7	57·6	− 3·5	4	0·48	+0·08	*	*
	Geldeston	78	45	68·1	50·4	59·3	− 2·3	4	0·25	−0·13	64	60
	Cambridge	81	43	69·0	48·7	58·9	− 4·0	3	0·26	−0·16	52	49
	Rothamsted	79	41	67·4	48·0	57·7	− 4·6	4	0·35	−0·18	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	77	44	66·1	49·1	57·6	− 3·5	5	0·71	+0·20	*	*
	Loughborough	79	46	67·1	48·9	58·0	− 4·1	4	1·87	+1·42	*	*
	Leicester	79	45	67·7	48·7	58·2	− 3·9	4	0·38	−0·22	43	40
	Birmingham (Oscott)										*	*
	Cheadle ⚓	73	45	62·2	47·4	54·8	− 5·6	7	1·26	?	*	*
	Churchstoke ⚓	76	44	64·8	47·7	56·3	− 4·1	6	0·71	?	42	39
	Hereford ⚓	74	43	66·9	48·8	57·9	− 4·1	6	0·41	−0·08	*	*
	Cirencester	74	41	64·9	47·4	56·2	− 5·3	5	0·47	−0·18	53	50
	Oxford	77	47	66·0	50·7	58·4	− 3·6	3	0·29	−0·20	51	48
5. ENGLAND, S.	London†	81	48	69·6	52·3	61·0	− 2·5	1	0·14	−0·31	53	50
	Marlborough ⚓	76	44	66·1	49·1	57·6	− 3·0	2	0·52	−0·04	56	53
	Strathfield Turgiss ⚓										*	*
	Dover	70	51	65·1	54·7	59·9	− 2·1	4	0·48	+0·03	*	*
	Hastings (St. Leonard's)	72	50	64·4	53·5	59·0	− 3·0	3	0·29	−0·12	58	55
	Southampton	74	47	66·9	53·9	60·4	− 1·7	3	0·39	?	60	57
	Hurst Castle	71	48	66·6	54·1	60·4	− 1·2	4	0·25	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	62	48	58·1	49·9	54·0	− 3·2	6	4·12	?	*	*
	Glasgow	64	47	60·9	49·2	55·1	− 2·6	5	3·23	+2·33	32	29
	Ardrossan	64	51	60·7	51·4	56·1	− 1·8	6	3·05	+2·21	*	*
	Silloth (Cumberland)	65	44	63·2	50·3	56·8	− 3·2	6	2·57	+1·91	23	21
	Douglas (Isle of Man)	64	40	61·3	49·2	55·3	− 2·7	6	3·10	+2·35	42	38
7. ENGLAND, N.W.	Barrow-in-Furness	62	47	60·9	51·9	56·4	− 3·9	6	2·35	?	*	*
	Stonyhurst	68	44	61·9	49·3	55·6	− 4·3	5	2·01	+0·98	35	32
	Blackpool ⚓	67	41	62·0	51·0	56·5	− 4·2	6	1·51	+0·99	31	28
	Manchester	72	47	62·8	50·0	56·4	− 4·4	6	1·87	+1·16	*	*
	Liverpool Obsy (Bidston)	73	51	63·7	52·3	58·0	− 3·0	4	1·44	+0·82	*	*
	Llandudno ⚓	68	50	63·6	52·5	58·3	− 2·7	5	0·98	+0·57	28	26
	Holyhead	62	54	60·9	54·7	57·8	− 2·2	6	2·32	+1·81	*	*
8. ENGLAND, S.W.	Pembroke	61	53	59·7	54·4	57·1	− 2·6	4	0·95	+0·35	46	43
	Arlington (N. Devon)	68	46	61·9	49·7	55·8	− 4·7	4	1·24	?	*	*
	Cullompton ⚓	69	43	65·1	48·4	56·8	− 5·2	4	0·50	?	48	45
	Falmouth	64	52	62·1	53·6	57·9	− 3·3	6	0·74	+0·09	46	44
	Plymouth	67	48	64·8	53·4	59·1	− 2·9	3	0·28	−0·32	35	33
	Prawle Point	70	50	62·7	52·4	57·6	− 2·4	2	0·24	?	*	*
9. IRELAND, N.	Londonderry	66	46	62·7	49·1	55·9	− 3·1	6	3·20	+2·39	*	*
	Mullaghmore	64	52	61·1	53·1	57·1	− 2·5	6	2·73	?	*	*
	Markree Castle	63	45	61·0	47·8	54·4	− 5·3	6	2·19	+1·36	29	27
	Brookeborough	64	44	61·1	48·6	54·9	− 5·0	6	2·41	?	*	*
	Armagh	64	47	61·8	50·4	56·1	− 3·8	6	2·30	+1·65	27	25
	Donaghadee	66	43	63·0	49·3	56·2	− 2·2	7	2·79	?	*	*
10. IRELAND, S.	Dublin	66	48	63·4	51·6	57·5	− 2·5	6	1·36	+0·80	33	31
	Parsonstown	64	45	61·7	49·4	55·6	− 4·1	4	2·45	+1·65	30	28
	Roche's Point	67	48	63·7	49·6	56·7	− 3·9	7	3·66	+2·91	*	*
	Valencia	63	50	62·7	52·1	57·4	− 2·1	7	4·05	+3·14	39	37
	Foynes	63	48	61·1	51·9	56·5	− 2·6	6	3·28	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 33.] WEEK ENDING MONDAY, AUGUST 20, 1883. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	70	42	63	50	57	0 (average).	2	2	5 less.	39	38
	2. ENGLAND, N.E.	74	45	67	52	59	1 above.	2	2	3 less.	48	47
	3. ENGLAND, E.	78	41	70	52	61	1 below.	2	1	3 less.	49	49
	4. MID. COUNTIES	78	39	69	51	60	1 below.	3	2	3 less.	50	50
	5. ENGLAND, S.	81	42	70	54	62	0 (average).	3	1	4 less.	46	46
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	70	43	62	51	57	1 below.	4	4	4 less.	31	30
	7. ENGLAND, N.W.	71	46	64	53	58	2 below.	4	6	1 less.	41	40
	8. ENGLAND, S.W.	74	39	64	53	58	2 below.	4	3	3 less.	40	40
	9. IRELAND, N.	72	42	64	51	57	2 below.	4	5	3 less.	24	24
	10. IRELAND, S.	68	44	63	52	58	2 below.	3	3	4 less.	25	25

General Remarks.

Weather has been generally fine at all the eastern and southern stations, but less settled in the W. and N.W., where, during the earlier part of the period, showers and cloudy skies were experienced.

Temperature has been slightly above the mean in "England, N.E.", and equal to it in "Scotland, E." and "England, S.", but below in all other districts, the deficit being 1° or 2°. The maxima were registered in most places on the 20th, and varied from 68° in "Ireland, S." to 78° in eastern and central England, and 81° in "England, S." The minima, which were recorded on different days in various parts of the kingdom, were as low as 39° in the "Midland Counties" and "England, S.W.", and between 41° an 46° elsewhere.

Rainfall has been less than the mean in all districts.

Bright sunshine has been rather less prevalent in Ireland than during last week, but more so in most other parts of the country. The percentages of possible duration varied from 24 or 25 in Ireland and 30 in "Scotland, W." to 49 in "England, E.", and 50 in the "Midland Counties."

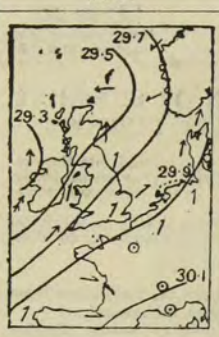
Depressions observed.—During the greater part of this period the barometer over our islands and Scandinavia was influenced by depressions travelling in an east-north-easterly direction, while in France pressure was comparatively high and steady. On the 19th, however, the high pressure area extended over our islands, but on the 20th, when a disturbance passed outside our extreme western coasts, it again receded somewhat. The winds were generally between S. and W. or N.W., and during the earlier days of the period blew freshly or strongly, occasionally reaching the force of a moderate or fresh gale at some of our western and northern stations. On the 20th, also, a moderate to fresh gale was experienced in Ireland and the W. of Scotland.

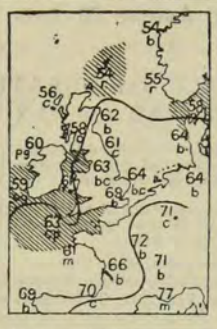
R 8616. 100 & 470.—8/83. Wt. 32. E. & S.

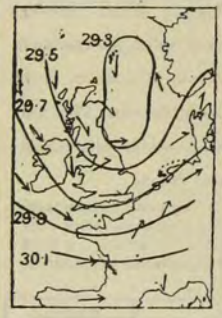
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending August 20, 1883.

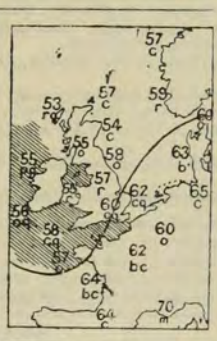
Synoptic Weather Charts.—8 a.m.

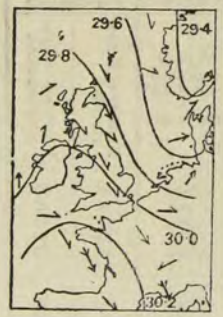
BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

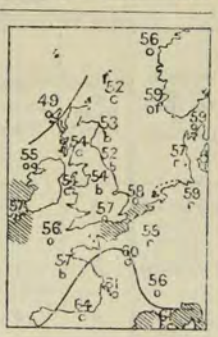


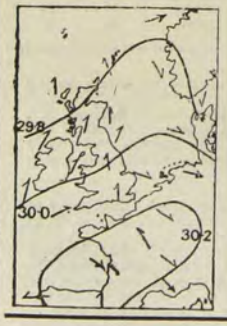


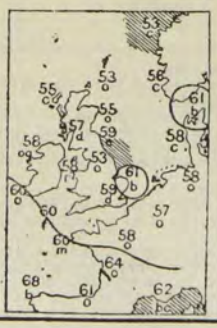












Weather during the 24 hours succeeding the date of the Charts.

Tuesday, August 14.

Weather fine in Sweden, France, and the eastern parts of Great Britain; cloudy or overcast elsewhere, with showers at some of our western stations, and steady rain in Norway. Rain occurring in most parts of our islands later.

Temperature risen, and readings ranging from 69° in London to 54° in the Shetlands. Highest maxima 77° at Yarmouth and 76° in London and at Cambridge.

Wind south-easterly in Norway, southerly or south-westerly elsewhere; strong in force on our W. and S.W. coasts. Veering to W. in Ireland later.

Sea rough in W. and S.W., as well as at Sumburgh Head.

Barometer falling at all but the Swedish stations. Pressure highest S. of France, and rather deep depression shown off W. of Ireland. Depression subsequently moving north-eastwards and barometer rising again in Ireland.

Wednesday, August 15.

Weather fine in France, unsettled and showery elsewhere.

Temperature fallen several degrees; readings ranging from 62° at Yarmouth to 53° at Stornoway. Maxima over England about 10° lower than on previous day.

Wind strong north-westerly on our western coasts, and westerly at the French and southern stations, but fresh south-westerly in the E. of England, and light south-easterly in Norway. North-westerly breezes extending eastwards later.

Sea rough in the W. and S.

Barometer rising at all the more western stations; falling elsewhere. Depression of previous day lying between Scotch and Norwegian coasts in morning, but continuing to travel north-eastwards later, and rise of barometer becoming general.

Thursday, August 16.

Weather dull and unsettled in Ireland, but generally fine elsewhere. Unsettled weather extending to S.W. of England later.

Temperature fallen slightly; readings ranging from 58° at Jersey to 49° at Stornoway. Highest maxima 68° at Hurst Castle and 66° in London.

Wind southerly in W. of Ireland, north-westerly elsewhere; light or moderate in force generally. Backing to S.W. or S. later at all but south-eastern stations.

Sea rather rough at Valencia and at Cape Gris Nez.

Barometer rising at all Irish stations. Depression of previous two days now shown over Scandinavia, but new disturbance appearing off our western coasts. Barometer falling at all western stations later.

Friday, August 17.

Weather cloudy or overcast generally, with fog in the S.W. of England, mist in Ireland, and drizzling rain in some other localities. Sky clearing in W. later.

Temperature risen in most places; readings ranging from 61° at Yarmouth to 53° in the Shetlands. Highest maxima 71° at York and Loughborough, and 70° at Shields, Hurst Castle, and Cambridge.

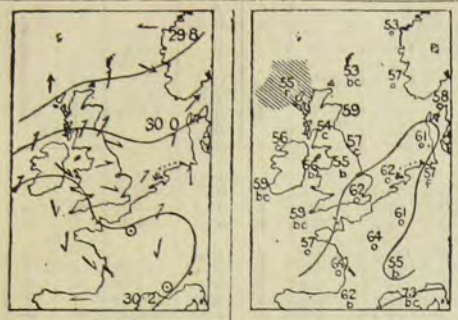
Wind light or moderate south-westerly in our islands, but strong north-westerly in Denmark. Subsequently veering to N.W. in Ireland and the S.W. of England.

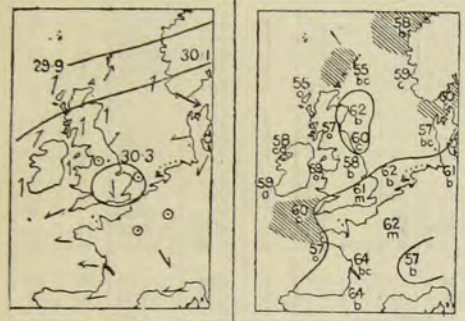
Sea moderate or smooth generally.

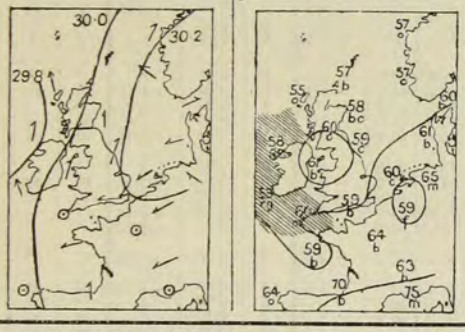
Barometer rising in Scandinavia, Denmark, the Netherlands, and S.E. of England, falling elsewhere. Anticyclone lying over France, and shallow depressions skirting our N.W. coasts. Rise taking place in W. later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, August 18.

Weather fine at all but the Norwegian, Danish, and French stations. A little rain falling in N. of Scotland during latter part of day.

Temperature fallen slightly W.; readings ranging from 63° at Cambridge to 53° in the Shetlands. Highest maxima 78° in London, 75° at Cambridge, and 74° at Oxford.

Wind moderate south-westerly in N. and W., but light north-westerly in S. Slight gale in N. of Scotland later.

Sea rather rough at Stornoway, slight or smooth elsewhere.

Barometer falling in Denmark and also on our N.W. coasts, but rising at all our eastern and southern stations. High pressure area extending from France over our S.W. coasts, and depressions skirting the N. of Scotland. Rise becoming general later.

Sunday, August 19.

Weather cloudy in extreme W. and N., fine elsewhere.

Temperature fallen several degrees in S.E.; readings ranging from 62° at Aberdeen and Yarmouth to 54° at Roche's Point and Pembroke. Highest maxima 78° at Loughborough, 77° in London, and 76° at Cambridge.

Wind south-westerly on our northern coasts, and easterly in the W. of France, but light and variable elsewhere. South-easterly breezes setting in over Ireland in evening.

Sea rather rough at Sumburgh Head and Scilly. Slight or smooth on other parts of our coasts.

Barometer falling in the S.W. of France, rising elsewhere. Large area of high pressure covering England, Ireland, France, and the southern portion of the North Sea. Fall taking place generally later.

Monday, August 20.

Weather dull in Ireland and the W. of Scotland, with rain at Mullaghmore and Valencia. Rain falling at several western and northern stations later.

Temperature changed irregularly; readings ranging from 63° at Hurst Castle, Dover, and Jersey to 55° at Stornoway, Wick, and Parsonstown. Highest maxima 81° in London, 78° at Cambridge, and 77° at Loughborough.

Wind light easterly in S.E., but southerly on all western and northern coasts; strong in force in W. of Ireland. Increasing considerably in N. later, and reaching force of gale in Hebrides.

Sea rough off the W. of Ireland, as well as at Scilly.

Barometer rising on eastern shores of North Sea, falling elsewhere. Area of highest pressure now found on eastern shores of the North Sea, and rather deep depression passing in a northerly direction outside the Irish and Scotch coasts.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	61	47	57·9	49·0	53·5	−0·6	6	1·04	+0·50	*	*
	Stornoway	59	45	57·7	49·1	53·4	−1·6	5	0·57	−0·32	13	12
	Wick	66	45	61·7	48·3	55·0	−0·3	4	0·13	−0·49	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	54	63·3	57·3	60·3	−0·9	4	0·15	−0·34	*	*
	Jersey (Noirmont)	75	54	66·7	56·6	61·7	−0·4	4	0·38	−0·17	48	49

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	67	47	64·1	49·6	56·9	0·0	3	0·26	−0·39	*	*
	Aberdeen	68	42	63·9	49·3	56·6	+ 0·1	2	0·18	−0·55	39	38
	Leith	70	46	66·6	50·4	58·5	+ 0·4	2	0·11	−0·47	*	*
2. ENGLAND, N.E.	Alnwick Castle	68	45	64·6	50·7	57·7	+ 0·7	2	0·19	?	*	*
	Shields	70	46	65·9	50·3	58·1	+ 0·6	2	0·74	+0·19	*	*
	Durham	73	45	68·6	49·5	59·1	+ 1·9	2	0·17	−0·37	46	45
	Scarborough ℳ	70	48	65·3	53·6	59·5	+ 0·6	3	0·17	−0·33	*	*
	York	74	46	69·9	51·0	60·5	+ 0·6	3	0·15	−0·41	50	49
	Spurn Head	71	51	64·7	55·1	59·9	+ 0·4	2	0·04	?	*	*
3. ENGLAND, E.	Hillington ℳ	77	42	69·3	49·2	59·3	− 1·2	2	0·26	−0·27	45	45
	Yarmouth	77	47	66·1	55·6	60·9	− 0·1	1	0·01	−0·40	*	*
	Geldeston	77	41	70·7	49·3	60·0	− 1·5	1	0·05	−0·30	52	52
	Cambridge	78	47	72·1	54·4	63·3	+ 1·1	2	0·06	−0·32	?	?
	Rothamsted	74	41	69·4	49·1	59·3	+ 2·6	4	0·11	−0·37	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	76	39	70·3	49·1	59·7	− 0·9	2	0·10	−0·39	*	*
	Loughborough	78	43	71·0	51·3	61·2	− 0·3	3	0·16	−0·29	*	*
	Leicester	77	45	70·5	50·8	60·7	− 0·8	2	0·18	−0·40	49	49
	Birmingham (Oscott)										*	*
	Cheadle ℳ	70	46	65·7	50·4	58·1	− 2·0	4	0·39	?	*	*
	Churchstoke ℳ	72	40	67·4	49·7	58·6	− 1·5	4	0·08	?	44	44
	Hereford ℳ	73	41	69·7	49·7	59·7	− 1·8	2	0·11	−0·36	*	*
	Cirencester	73	46	68·0	51·4	59·7	− 1·4	5	0·17	−0·48	54	54
	Oxford	75	48	70·3	54·0	62·2	+ 0·2	2	0·03	−0·45	51	51
5. ENGLAND, S.	London†	81	49	73·3	54·3	63·8	+ 0·7	2	0·02	−0·42	38	38
	Marlborough ℳ	74	43	69·9	51·4	60·7	+ 0·5	3	0·07	−0·53	47	47
	Strathfield Turgiss ℳ	79	42	72·0	50·5	61·3	− 0·6	2	0·05	−0·35	*	*
	Dover	67	49	65·1	56·3	60·7	− 1·3	3	0·14	−0·31	*	*
	Hastings (St. Leonard's)	70	53	66·6	56·2	61·4	− 0·3	5	0·18	−0·27	46	46
	Southampton	77	49	70·6	54·1	62·4	+ 0·3	2	0·14	?	51	51
	Hurst Castle	71	49	68·9	55·1	62·0	+ 0·5	3	0·17	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	63	49	61·3	52·6	57·0	− 0·1	5	0·57	?	*	*
	Glasgow	64	46	62·3	50·5	56·4	− 0·7	4	0·45	−0·45	26	25
	Ardrossan	62	50	59·9	51·7	55·8	− 1·8	4	0·23	−0·67	*	*
	Silloth (Cumberland)	70	43	65·4	50·4	57·9	− 1·7	4	0·60	−0·10	37	36
	Douglas (Isle of Man)	64	47	61·4	50·6	56·0	− 2·0	3	0·32	−0·47	29	28
7. ENGLAND, N.W.	Barrow-in-Furness	67	50	62·6	53·4	58·0	− 2·3	4	0·62	?	*	*
	Stonyhurst	70	47	64·2	51·0	57·6	− 2·2	5	0·97	−0·08	43	42
	Blackpool ℳ	71	48	63·3	53·1	58·2	− 2·3	4	0·34	−0·19	39	38
	Manchester	71	46	65·9	50·6	58·3	− 2·2	4	0·59	−0·12	*	*
	Liverpool Obsy (Bidston)	71	53	64·9	54·1	59·5	− 1·1	4	0·34	−0·17	*	*
	Llandudno ℳ											
	Holyhead	63	51	61·6	52·6	57·1	− 2·9	3	0·45	−0·15	*	*
8. ENGLAND, S.W.	Pembroke	62	50	60·4	53·3	56·9	− 2·3	5	0·17	−0·46	33	33
	Arlington (N. Devon)	71	44	61·1	51·0	56·1	− 3·9	5	0·93	?	*	*
	Cullompton ℳ	74	39	68·3	49·7	59·0	− 2·5	3	0·26	?	46	46
	Falmouth	66	50	63·7	54·2	59·0	− 2·1	4	0·21	−0·44	40	40
	Plymouth	69	45	66·4	54·0	60·2	− 1·8	3	0·15	−0·45	40	40
	Prawle Point	67	49	64·0	53·0	58·5	− 1·1	4	0·27	?	*	*
9. IRELAND, N.	Londonderry	72	47	66·6	50·7	58·7	+ 0·2	5	0·87	+0·03	*	*
	Mullaghmore	67	50	62·6	53·7	58·2	− 1·1	4	0·31	?	*	*
	Markree Castle	66	42	63·9	49·5	56·7	− 2·3	4	0·38	−0·52	22	22
	Brookeborough	64	44	62·0	49·4	55·7	− 3·7	2	0·52	?	*	*
	Armagh	65	48	63·0	51·4	57·2	− 2·2	4	0·56	−0·06	25	25
	Donaghadee	67	45	63·7	49·3	56·5	− 1·5	3	0·38	?	*	*
10. IRELAND, S.	Dublin	68	50	65·2	53·8	59·5	− 0·2	2	0·11	−0·47	34	34
	Parsonstown	66	44	63·4	50·3	56·9	− 2·5	3	0·23	−0·57	16	16
	Roche's Point	66	44	63·4	49·6	56·5	− 3·8	2	0·21	−0·49	*	*
	Valencia	64	48	62·6	53·7	58·2	− 1·1	6	0·73	−0·21	24	24
	Foynes	66	49	62·6	52·0	57·3	− 1·7	4	0·10	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 34.] WEEK ENDING MONDAY, AUGUST 27, 1883. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	DISTRICTS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	75	45	68	53	60	4 above.	2	2	5 less.	43	43
	2. ENGLAND, N.E.	77	43	68	52	60	3 above.	1	less than ½	5 less.	36	36
	3. ENGLAND, E.	80	41	73	50	61	1 above.	2	1	4 less.	50	51
	4. MID. COUNTIES	78	41	72	50	61	0 (average).	0	less than ½	6 less.	45	47
	5. ENGLAND, S.	82	43	74	55	64	3 above.	1	less than ½	5 less.	53	54
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	70	43	64	51	58	0 (average).	4	7	4 less.	38	38
	7. ENGLAND, N.W.	74	41	66	53	60	0 (average).	1	less than ½	7 less.	44	45
	8. ENGLAND, S.W.	75	41	69	53	61	1 above.	2	1	6 less.	58	60
	9. IRELAND, N.	72	41	66	51	59	0 (average).	3	3	5 less.	29	29
	10. IRELAND, S.	72	47	67	53	60	1 above.	1	less than ½	8 less.	45	46

General Remarks.

Weather has been dry and fine in all parts of the country.

Temperature has been about equal to the mean in the "Midland Counties", "Scotland, W.", "England, N.W.", and "Ireland, N.", but above it elsewhere, the excess in "Scotland, E." being 4°, and in "England, N.E." and "England, S." 3°. The maxima, which were registered on the 21st or 26th in England and on various dates in Ireland and Scotland, were as high as 82° in "England, S." and 80° in "England, E.", while in other districts they ranged from 70° (in "Scotland, W.") to 78° (in the "Midland Counties"). The minima were recorded either on the 23rd or 24th, and varied from 41° over the greater part of England and in "Ireland, N." to 47° in "Ireland, S."

Rainfall has been considerably less than the mean in all districts.

Bright sunshine shows an increase in duration in nearly all places, the percentages varying from 60 in "England, S.W." and 54 in "England, S.", to 36 in "England, N.E." and 29 in "Ireland, N."

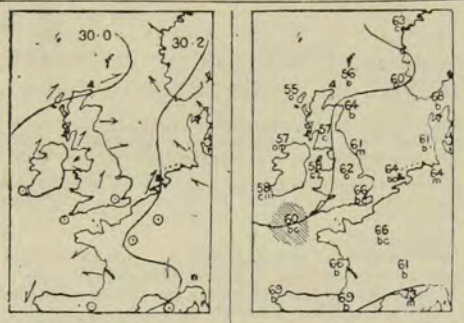
Depressions observed.—During nearly the whole of this week an area of high pressure has existed over the United Kingdom, while some depressions have been observed far to the northward and over Scandinavia. Towards the end of the period, however, depressions approached nearer our northern and north-western coasts, the high pressure system at the same time receding southwards. The winds during the first few days were very light in force and rather variable in direction, but generally south-westerly or westerly in the N., and easterly or north-easterly in the S.; but as the week progressed the south-westerly and westerly winds gradually extended to all parts of the Kingdom and increased somewhat in force.

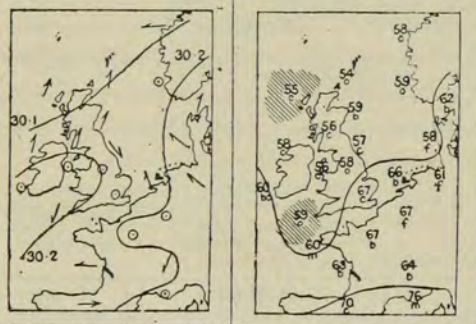
R 8692. 100 & 470.—8/83. Wt. 32. E. & S.

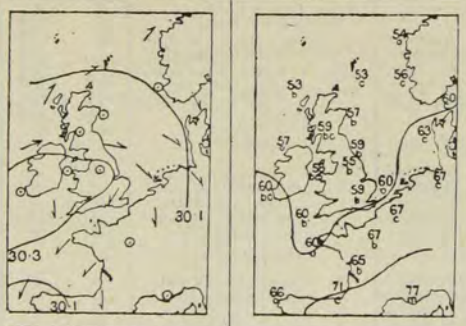
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending August 27, 1883.

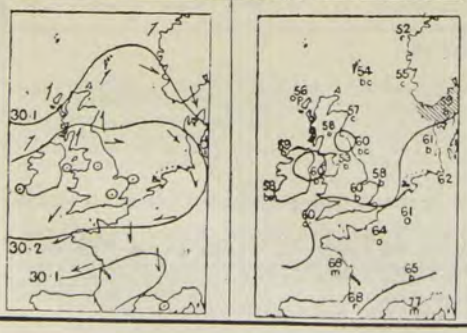
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Tuesday, August 21.

Weather fair generally.

Temperature changed little and irregularly; readings ranging from 66° in London to 55° at Stornoway. Subsequently rising to 82° in London, 80° at Cambridge, and 76° at Loughborough.

Wind light or moderate south-easterly on eastern shores of North Sea, and south-westerly in Scotland, but light and very variable over England, Ireland, and France.

Sea rough at Scilly, slight or smooth elsewhere.

Barometer rising a little at all but the Norwegian stations. Readings highest over Sweden and lowest off our northern coasts, with very uniform pressures over our Islands and France. No important change later.

Wednesday, August 22.

Weather fair generally, but a good deal of cloud locally, and thick haze over some parts of England. Slight rain falling in S.E. later.

Temperature fallen a little; readings ranging from 68° at Dover to 53° at Donaghadee. Highest maxima 76° at Jersey, 74° in London, and 72° at Cambridge.

Wind light and variable at all but the extreme northern stations, where generally south-westerly. North-westerly or northerly breezes subsequently setting in over our southern coasts.

Sea rather rough at Stornoway and Scilly.

Barometer falling in Sweden, but very little changed elsewhere. Readings still very uniform, but anticyclone gradually forming over our S.W. coasts. Slight rise taking place generally later.

Thursday, August 23.

Weather fine generally. Slight rain falling in N. of Scotland later.

Temperature fallen N. and E.; readings ranging from 62° at Prawle Point and Jersey to 53° at Sumburgh Head, Stornoway, and Nairn. Highest maxima 75° at Cambridge and 74° at York, Loughborough, and in London.

Wind south-westerly in N., but north-westerly in E. and north-easterly at our southern and the French stations; light or moderate in force generally.

Sea slight or smooth.

Barometer falling in Scandinavia and Denmark; rising elsewhere. Anticyclone lying over our south-western and southern coasts. No important change later.

Friday, August 24.

Weather fine at all but the extreme northern stations, where dull and rainy.

Temperature little changed; readings ranging from 62° at Prawle Point to 50° at Loughborough. Highest maxima 77° in London, 76° at York and Loughborough, and 75° at Oxford and Cambridge.

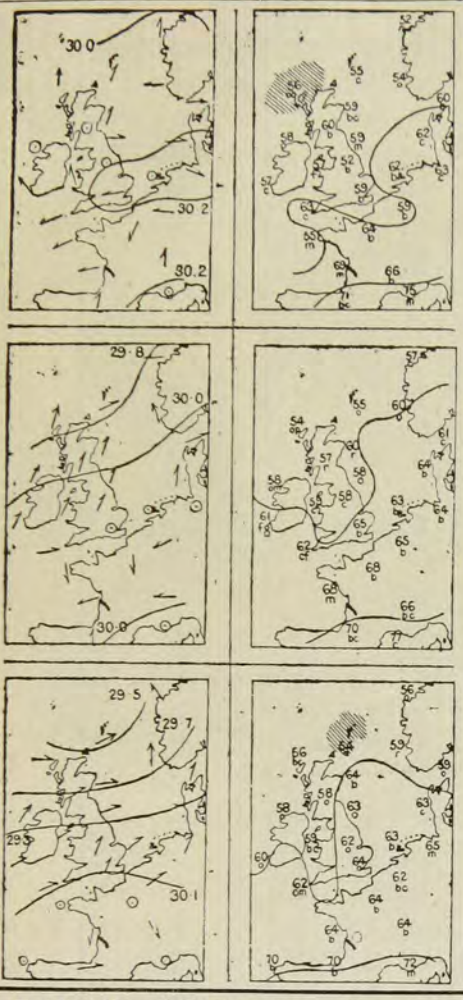
Wind south-westerly in Scotland and north-westerly in Scandinavia, but north-easterly at our southern and the French stations.

Sea moderate at Stornoway, smooth elsewhere.

Barometer falling steadily in Sweden and slightly on our western and northern coasts, rising a little elsewhere. Large area of high pressure covering Ireland, England, and the southern portion of the North Sea, with well-defined depression over the Gulf of Bothnia. No important change later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, August 25.

Weather fine generally, but a good deal of fog or mist reported over Ireland and England. Fog clearing later.

Temperature fallen slightly in most places; readings ranging from 66° at Dover to 51° at Oxford. Highest maximum 78° in London, 77° at Cambridge, and 76° at Loughborough.

Wind still south-westerly at the extreme northern, but north-easterly at the southern and light variable at the more central stations.

Sea rather rough at Stornoway, slight or smooth elsewhere.

Barometer falling slightly at all but the Scandinavian and Danish stations. Area of highest readings now confined to the southern portion of the North Sea but relatively high pressures still found over Ireland and England. Fall of barometer continuing all day.

Sunday, August 26.

Weather dull at all the more northern stations, with rain in several places but still fine in the S.

Temperature risen S., fallen slightly N.; readings ranging from 67° at Dover to 54° at Stornoway. Highest maximum 80° in London, 77° at Cambridge, 76° at Loughborough, and 75° at Hurst Castle and Oxford.

Wind moderate south-westerly in the N., but light and variable at the southern and French stations. Westerly breezes setting in over S. coasts later.

Sea moderate at Stornoway, slight or smooth elsewhere.

Barometer falling at all but our south-western and the French stations. High pressure area moving slowly southwards, and depression systems appearing to the northward of Scotland.

Monday, August 27.

Weather fine in France and the N.E. of Scotland, cloudy or overcast elsewhere. Slight rain falling at many of our western and northern stations.

Temperature changed irregularly; readings ranging from 64° at Aberdeen, Hurst Castle, and in London, to 54° in the Shetlands. Highest maxima 76° in London, 73° at Oxford, and 72° at Cambridge.

Wind light, variable in France, but fresh or strong from S.W. or W. over our Islands and the eastern shores of the North Sea.

Sea moderate to smooth, except at Sumburgh Head.

Barometer falling at all but the French stations. Area of highest pressure now lying over France, and large depression passing along in an easterly direction to the northward of Scotland. Barometer rising slightly on our western and northern coasts later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	61	47	58·0	49·6	53·8	−0·2	5	0·26	−0·29	*	*
	Stornoway	62	44	59·1	50·6	54·9	+0·3	5	0·33	−0·62	22	22
	Wick	69	40	64·0	49·6	56·8	+1·9	3	0·19	−0·49	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	67	55	64·4	56·0	60·2	−0·9	2	0·04	−0·56	*	*
	Jersey (Noirmont)	76	57	71·0	58·4	64·7	+2·7	1	0·01	−0·58	67	70

† The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	72	45	66·1	53·3	59·7	+ 3·7	3	0·15	−0·55	*	*
	Aberdeen	71	48	68·9	52·0	60·5	+ 4·5	2	0·28	−0·47	43	43
	Leith	75	47	68·4	51·9	60·2	+ 2·7	2	0·05	−0·54	*	*
2. ENGLAND, N.E.	Alnwick Castle	71	49	66·0	52·1	59·1	+ 2·8	2	0·07	?	*	*
	Shields	70	47	66·9	51·1	59·0	+ 2·0	1	0·07	−0·51	*	*
	Durham	77	43	71·9	49·0	60·5	+ 3·7	2	0·04	−0·51	35	35
	Scarborough ⚓	72	52	67·2	55·2	61·2	+ 3·1	1	0·06	−0·49	*	*
	York	76	45	71·7	51·1	61·4	+ 2·4	0	—	−0·60	36	36
	Spurn Head	70	53	65·6	55·9	60·8	+ 1·9	1	0·01	?	*	*
3. ENGLAND, E.	Hillington ⚓	76	41	73·1	48·5	60·8	+ 0·8	2	0·04	−0·51	46	47
	Yarmouth	69	48	67·0	53·9	60·5	0·0	1	0·04	−0·44	*	*
	Geldeston	78	41	73·3	49·0	61·2	+ 0·2	2	0·05	−0·34	56	58
	Cambridge	80	44	75·4	49·9	62·7	+ 1·2	1	0·08	−0·30	47	48
	Rothamsted	78	44	73·6	48·6	61·1	+ 0·1	3	0·11	−0·37	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	78	41	72·7	48·9	60·8	+ 0·8	0	—	−0·50	*	*
	Loughborough	76	43	73·7	50·0	61·9	+ 1·4	0	—	−0·50	*	*
	Leicester	77	44	73·7	50·7	62·2	+ 1·7	1	0·01	−0·37	37	38
	Birmingham (Oscott)										*	*
	Cheadle ⚓	71	47	68·5	51·3	59·9	+ 0·1	0	—	?	*	*
	Churchstoke ⚓	76	42	71·3	47·7	59·5	− 0·2	0	—	?	42	43
	Hereford ⚓	77	42	72·8	48·0	60·4	− 0·4	0	—	−0·51	*	*
	Cirencester	73	44	70·0	49·3	59·7	− 1·2	1	0·02	−0·66	52	54
	Oxford	75	46	72·9	51·4	62·2	+ 0·7	0	—	−0·50	49	51
5. ENGLAND, S.	London†	82	47	77·3	54·1	65·7	+ 3·2	1	0·05	−0·42	41	42
	Marlborough ⚓	76	43	73·1	50·5	61·8	+ 2·0	1	0·02	−0·66	48	49
	Strathfield Turgiss ⚓	81	43	77·0	47·4	62·2	+ 0·7	1	0·02	−0·40	*	*
	Dover	71	57	68·6	58·3	63·5	+ 1·9	2	0·06	−0·42	*	*
	Hastings (St. Leonard's)	75	53	72·2	57·8	65·0	+ 3·8	1	0·03	−0·44	65	67
	Southampton	80	48	76·6	53·3	65·0	+ 3·5	0	—	?	56	58
	Hurst Castle	75	53	72·0	55·4	63·7	+ 2·6	0	—	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	62	50	61·1	53·1	57·1	+ 0·1	6	1·53	?	*	*
	Glasgow	67	49	63·7	52·0	57·9	+ 0·4	6	0·65	−0·28	28	28
	Ardrossan	65	49	63·0	53·3	58·2	+ 1·2	3	0·79	−0·16	*	*
	Silloth (Cumberland)	70	45	66·9	50·7	58·8	− 0·3	2	0·40	−0·33	38	38
	Douglas (Isle of Man)	68	43	65·7	47·7	56·7	− 1·1	3	0·10	−0·70	48	48
7. ENGLAND, N.W.	Barrow-in-Furness	68	50	64·6	54·6	59·6	− 0·2	0	—	?	*	*
	Stonyhurst	71	46	66·9	50·4	58·7	− 0·6	2	0·05	−1·05	44	44
	Blackpool ⚓	69	41	64·8	49·4	57·1	− 4·0	1	0·02	−0·62	46	47
	Manchester	73	45	68·2	53·5	60·9	+ 0·9	0	—	−0·76	*	*
	Liverpool Obsy (Bidston)	74	50	67·0	55·0	61·0	+ 1·0	0	—	−0·51	*	*
	Llandudno ⚓	69	49	66·3	54·2	60·3	+ 0·1	0	—	−0·54	45	44
	Holyhead	67	49	64·6	53·9	59·3	− 0·2	2	0·05	−0·60	*	*
8. ENGLAND, S.W.	Pembroke	65	51	63·3	54·6	59·0	+ 0·5	2	0·07	−0·60	58	60
	Arlington (N. Devon)	73	45	68·6	50·7	59·7	+ 0·5	1	0·08	?	*	*
	Cullompton ⚓	75	41	72·9	48·3	60·6	− 0·3	3	0·12	?	51	53
	Falmouth	71	53	67·5	55·6	61·6	+ 1·0	1	0·05	−0·60	64	66
	Plymouth	71	49	69·9	53·5	61·7	− 0·2	0	—	−0·65	57	59
	Prawle Point	71	53	68·4	55·7	62·1	+ 3·1	2	0·07	?	*	*
9. IRELAND, N.	Londonderry	71	48	66·9	51·6	59·3	+ 1·4	3	0·49	−0·36	*	*
	Mullaghmore	68	47	64·0	55·0	59·5	+ 0·8	4	0·46	?	*	*
	Markree Castle	69	42	66·5	49·8	58·2	− 0·3	3	0·22	−0·65	17	17
	Brookeborough	70	41	66·2	46·6	56·4	− 2·3	1	0·24	?	*	*
	Armagh	69	49	65·7	52·8	59·3	+ 0·7	2	0·18	−0·47	40	40
	Donaghadee	72	45	67·1	51·1	59·1	+ 1·6	2	0·26	?	*	*
10. IRELAND, S.	Dublin	71	50	67·8	53·7	60·8	+ 1·9	1	0·02	−0·56	48	49
	Parsonstown	72	47	67·7	51·6	59·7	+ 0·7	0	—	−0·83	41	42
	Roche's Point	68	50	66·4	52·1	59·3	− 0·6	0	—	−0·86	*	*
	Valencia	68	50	65·1	53·6	59·4	+ 0·4	2	0·05	−0·94	47	48
	Foynes	69	50	65·4	52·4	58·9	+ 0·4	1	0·05	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 35.] WEEK ENDING MONDAY, SEPTEMBER 3, 1883. [*Price 2d.* [*Annual subscription, post paid.* 12*s.* 6*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861–80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866–75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	69	41	61	50	55	0 (average).	6	15	8 more.	27	28
	2. ENGLAND, N.E.	70	45	64	52	58	1 above.	5	9	3 more.	21	23
	3. ENGLAND, E.	73	46	67	54	61	1 above.	4	6	1 more.	26	27
	4. MID. COUNTIES	74	43	65	53	59	1 below.	4	13	7 more.	20	21
	5. ENGLAND, S.	77	47	66	56	61	1 above.	5	10	4 more.	25	26
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	69	43	61	51	56	1 below.	6	10	2 more.	19	20
	7. ENGLAND, N.W.	70	48	62	53	58	1 below.	5	12	4 more.	14	15
	8. ENGLAND, S.W.	71	44	62	54	58	1 below.	6	18	10 more.	20	21
	9. IRELAND, N.	67	42	60	51	56	2 below.	7	14	7 more.	16	17
	10. IRELAND, S.	70	43	62	52	57	1 below.	4	18	10 more.	21	[illegible]

General Remarks.

Weather, which at the opening of this period was fair in the S. and S.E., subsequently became unsettled, dull, and showery in all parts of the Kingdom, the disturbance culminating in very heavy rains and violent winds at almost all our stations.

Temperature has been slightly above the mean in "England, N.E." and "England, E.", and about the average for the season in "Scotland, E.", but elsewhere the readings have been a little below their normal value. The maxima were recorded in most places on August 28th, and varied from 67° in "Ireland, N." and 69° in Scotland, to 77° in "England, S." The minima, which were generally registered on 1st September, ranged from 41° in "Scotland, E." to 47° in "England, S." and 48° in "England, N.W."

Rainfall has been more than the mean in all districts, the excess in Ireland, "Scotland, E.", and central and south-western England being very considerable.

Bright sunshine percentages show a great decrease in all parts of the country, ranging from 15 °/₀ of the possible duration in "England, N.W." and 17 °/₀ in "Ireland, N.", to 28 °/₀ in the E. of Scotland.

Depressions observed.—During the first and greater part of this period the barometer was highest over France and lowest over Scandinavia, while some small shallow depressions passed in an east-north-easterly direction over the United Kingdom, the winds in our Islands consequently being moderate or fresh from the south-westward or westward. By the morning of September 1st, however, a very deep depression was observed approaching the S.W. of Ireland, causing the barometer to fall rapidly on our S.W. coasts and the wind to increase to a gale from S. or S.E. During the following day, as the disturbance moved rather slowly eastward and north-eastward, the wind increased to a gale at nearly all our stations—from S.E. or E. in the E. and N., from N. or N.W. in the W., and from between W. and S. in the S. and S.E. By September 3rd, the depression had reached the North Sea off the Scotch coast, and the wind, which had veered to the northward or north-westward, was moderating in force. Over the N. and W. of France, the Channel, and the S. of England, the gale was unusually severe.

R 8789. 100 & 470.—9/83. Wt. 32. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending September 3, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, August 28.

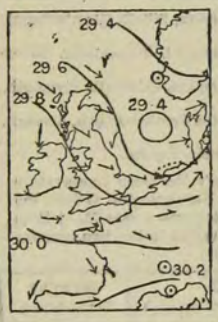
Weather continuing fine in the E. and S.E., but becoming dull in the W. and N. Considerable rain in the N. later, and some generally in the W.

Temperature at 8 a.m. rather lower than on 27th, but rising to 77° in London and to 72° over our northern counties during the day.

Wind at first westerly and moderate; subsequently backing to S.W. and S.E. in the N., and blowing strongly from S.W. over our north-western districts.

Sea little disturbed till evening; then rough in N.W.

Barometer highest over France; lowest in a depression over Scandinavia. A new subsidiary depression advancing over our northern districts towards night.



Wednesday, August 29.

Weather cloudy very generally; some more showers in the W. and S.W., none in the E. or S.E.

Temperature rather lower than on the 28th. Maximum readings recorded only 70° over our south-eastern counties, and 60° to 63° in the N.

Wind veering to N.W. again in North Britain and over the Irish Sea, and falling light. Northerly breezes felt on our E. coasts also later.

Sea gone down again.

Barometer still highest in far S., and lowest over Gulf of Bothnia. Yesterday's subsidiary depression now found over the North Sea, and another very small shallow one off the N. coast of Cornwall.

Thursday, August 30.

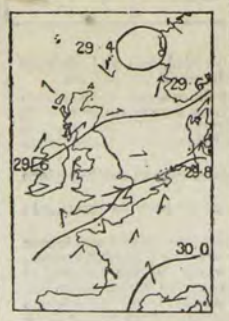
Weather again cloudy in most places, and subsequently becoming showery except in the S.E.

Temperature continuing low—the maxima differing but little from those of Wednesday.

Wind again backing to the south-westward in Ireland and England, and to S. or S.E. in Scotland; blowing rather strongly over the Channel and S. of England at times.

Sea smooth at first, rough in the S. and S.W. later.

Barometer continuing highest in the S. of France, lowest over the Gulf of Bothnia. New small depression in the N.W., and travelling across Scotland during the day.



Friday, August 31.

Weather becoming more and more unsettled, the rainfall now extending to the S.E. of England with cold foggy air.

Temperature falling generally, most in the S.E. Maximum in London only 62°, but that at Cambridge 70°.

Wind moderate to light; south-westerly in the N., but varying from S.W. to N.W. and N.E. in the S., and finally becoming calm.

Sea smooth.

Barometer highest in S., lowest in N. Yesterday's depression now off the W. of Norway; very shallow and small subsidiaries in the S. later on.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, September 1.

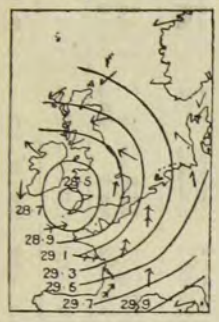
Weather breaking up entirely; fair at first in the S.E., dull, wet, and squally in the W. The rough wet weather afterwards becoming general.

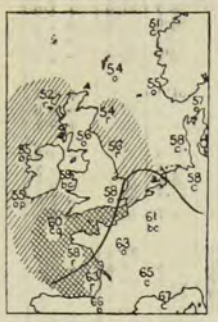
Temperature uniformly low, and not rising above 66° at any of our stations during the day.

Wind very light from W. and S.W. over England at first, but back to S. and S.E. in the W., and increasing greatly in force. Severe S. and S.E. gales felt subsequently in the W., and wind rising quickly elsewhere later on.

Sea becoming very high as the wind increased.

Barometer falling fast in the W. Deep and well formed depression arriving off the S. of Ireland in the evening and travelling slowly to the eastward.





Sunday, September 2.

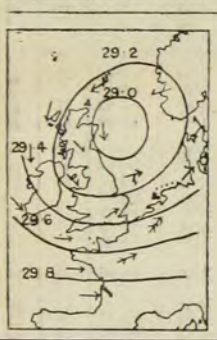
Weather most unseasonable, rough and wild. Large quantities of cold rain everywhere; lightning in the E.

Temperature very low; maxima over England 60° to 63°.

Wind blowing a hard gale, from between S. and W. over the greater part of England, and a moderate gale from E. in Scotland. In Ireland the wind at 8 a.m. was already northerly and beginning to lull.

Sea rough on all coasts; unusually high in the Channel.

Barometer very low, especially about the centre of the storm, which at 8 a.m lay near Pembroke, whence it moved slowly to the north-eastward and became partially filled up.



Monday, September 3.

Weather improving slowly, most in the W.; still rough, squally, and showery over the northern parts of Great Britain, dry in the S. and S.W. of England.

Temperature rising a little in the S. and W., but still low; Maximum readings recorded in our Islands being only 65° or 66°.

Wind still blowing very hard in the Channel (from W.), but veering and lulling elsewhere. Gale dying down generally later on.

Sea still very rough, except in E., but going down slowly.

Barometer rising generally. Centre of storm off the E. of Scotland at 8 a.m. Depression less deep than when it first arrived, and now travelling in about a north-north-easterly direction.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➔ = a gale; ⟶ = a fresh to strong breeze; → = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	59	44	56·6	47·0	51·8	−1·7	5	1·39	+0·84	*	*
	Stornoway	58	46	55·6	48·3	52·0	−1·6	6	2·16	+1·17	17	18
	Wick	63	41	57·6	47·0	52·3	−1·8	6	1·59	0+·89	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	66	55	62·1	56·1	59·1	−1·6	6	1·36	+0·64	*	*
	Jersey (Noirmont)	67	56	65·1	57·3	61·2	−0·4	7	0·54	−0·06	20	22

† The above observations made in Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	63	48	58·4	50·1	54·3	− 0·8	5	1·19	+0·49	*	*
	Aberdeen	65	41	60·9	48·9	54·9	− 0·2	5	2·40	+1·61	27	28
	Leith	65	44	62·3	50·6	56·5	− 0·4	6	0·80	+0·20	*	*
2. ENGLAND, N.E.	Alnwick Castle	66	45	62·3	50·3	56·3	+ 0·7	5	1·31	?	*	*
	Shields	68	48	62·7	50·6	56·7	+ 0·6	4	0·99	+0·39	*	*
	Durham	68	47	65·8	49·6	57·7	+ 1·6	5	0·84	+0·26	26	28
	Scarborough ℔	68	50	64·4	52·4	58·4	+ 1·1	5	0·80	+0·20	*	*
	York	70	45	65·6	51·9	58·8	+ 0·8	5	0·73	+0·07	16	17
	Spurn Head	68	52	64·3	55·1	59·7	+ 1·8	3	0·52	?	*	*
3. ENGLAND, E.	Hillington ℔	71	46	67·1	52·6	59·9	+ 1·0	3	1·08	+0·50	23	24
	Yarmouth	70	52	66·3	55·7	61·0	+ 1·0	3	0·27	−0·29	*	*
	Geldeston	71	51	67·8	54·9	61·4	+ 1·5	3	0·26	−0·22	30	32
	Cambridge	73	49	68·0	53·4	60·7	+ 0·1	4	0·58	+0·16	*	*
	Rothamsted	73	46	65·8	52·9	59·4	− 0·7	6	0·80	+0·27		
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	73	43	67·1	51·1	59·1	+ 0·1	5	0·85	+0·30	*	*
	Loughborough	72	46	64·7	53·4	59·1	− 0·3	3	1·13	+0·57	*	*
	Leicester	71	49	64·8	54·1	59·5	+ 0·1	4	1·35	+0·75	16	17
	Birmingham (Oscott)										*	*
	Cheadle ℔	68	47	61·5	50·5	56·0	− 2·5	5	2·04	?	*	*
	Churchstoke ℔	71	45	64·3	51·3	57·8	− 0·7	4	1·49	?	20	21
	Hereford ℔	74	45	65·5	52·8	59·2	− 0·7	3	1·48	+0·88	*	*
	Cirencester	73	48	64·0	52·1	58·1	− 1·9	4	1·21	+0·49	23	24
	Oxford	73	52	65·9	54·7	60·3	− 0·1	5	1·06	+0·51	22	23
5. ENGLAND, S.	London†	77	51	67·6	56·3	62·0	+ 0·5	4	0·56	+0·05	21	22
	Marlborough ℔	72	51	65·2	53·6	59·4	+ 0·4	6	1·65	+0·90	23	24
	Strathfield Turgiss ℔	76	47	68·3	54·4	61·4	+ 0·5	4	1·25	+0·75	*	*
	Dover	69	55	65·7	58·7	62·2	+ 1·2	5	0·55	+0·02	*	*
	Hastings (St. Leonard's)	69	53	65·0	57·7	61·4	+ 0·9	4	0·56	+0·04	29	31
	Southampton	76	52	66·4	56·2	61·3	+ 0·9	4	1·47	?	26	27
	Hurst Castle	72	50	66·3	56·4	61·4	+ 1·1	5	0·66	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	61	46	59·3	49·7	54·5	− 1·6	7	0·91	?	*	*
	Glasgow	64	49	61·1	50·6	55·9	0·0	7	0·93	−0·06	20	21
	Ardrossan	63	50	60·1	51·6	55·9	− 1·2	6	0·82	−0·18	*	*
	Silloth (Cumberland)	69	43	64·9	51·5	58·2	+ 0·1	7	0·67	−0·13	17	18
	Douglas (Isle of Man)	65	44	60·6	50·4	55·5	− 1·3	5	1·89	+1·09	21	22
7. ENGLAND, N.W.	Barrow-in-Furness	64	52	61·4	54·3	57·9	− 0·6	6	0·86	?	*	*
	Stonyhurst	65	49	62·7	50·9	56·8	− 1·3	5	1·55	+0·38	17	18
	Blackpool ℔	65	50	62·5	54·6	58·6	− 0·5	7	1·01	+0·27	16	17
	Manchester	69	48	63·0	51·2	57·1	− 1·9	4	1·58	+0·77	*	*
	Liverpool Obsy (Bidston)	70	50	63·1	54·3	58·7	− 0·5	6	1·44	+0·78	*	*
	Llandudno ℔	67	52	62·9	54·0	58·5	− 1·2	4	0·95	+0·30	9	9
	Holyhead	65	51	60·7	53·6	57·2	− 1·7	6	1·18	+0·48	*	*
8. ENGLAND, S.W.	Pembroke	61	55	60·0	55·9	58·0	+ 0·8	6	1·11	+0·36	16	17
	Arlington (N. Devon)	65	48	60·7	52·0	56·4	− 1·9	7	2·22	?	*	*
	Cullompton ℔	71	44	65·1	53·0	59·1	− 0·9	5	2·26	?	27	28
	Falmouth	68	52	62·8	55·8	59·3	− 0·7	6	2·24	+1·59	20	21
	Plymouth	70	47	64·0	55·1	59·6	− 1·4	6	1·61	+0·85	18	19
	Prawle Point	67	52	61·3	54·6	58·0	0·0	5	1·08	?	*	*
9. IRELAND, N.	Londonderry										*	*
	Mullaghmore	65	51	59·6	52·9	56·3	− 1·6	7	1·41	?	*	*
	Markree Castle	67	44	61·3	50·3	55·8	− 2·1	6	0·97	+0·11	18	19
	Brookeborough	65	42	59·7	49·0	54·4	− 3·5	7	1·58	?	*	*
	Armagh	65	46	60·4	51·2	55·8	− 2·0	7	1·83	+1·18	13	14
	Donaghadee	64	48	61·0	51·4	56·2	− 0·4	7	1·39	?	*	*
10. IRELAND, S.	Dublin	70	50	62·4	53·5	58·0	0·0	5	2·01	+1·44	19	20
	Parsonstown	66	48	61·0	50·6	55·8	− 2·7	4	1·32	+0·48	17	18
	Roche's Point	67	49	62·6	52·4	57·5	− 1·5	6	2·13	+1·18	*	*
	Valencia	64	43	62·3	51·6	57·0	− 1·5	7	1·66	+0·62	27	28
	Foynes										*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 36.] WEEK ENDING MONDAY, SEPTEMBER 10, 1883. [*Price 2d.*

[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	65	39	61	47	54	1 below.	6	4	4 less.	36	39
	2. ENGLAND, N.E.	68	40	61	47	54	2 below.	5	6	0 (average).	38	42
	3. ENGLAND, E.	68	38	63	46	54	5 below.	4	7	1 more.	34	37
	4. MID. COUNTIES	70	36	62	46	54	4 below.	5	11	5 more.	33	36
	5. ENGLAND, S.	70	36	63	48	55	4 below.	4	9	3 more.	27	30
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	65	39	60	47	54	2 below.	5	11	2 less.	38	41
	7. ENGLAND, N.W.	67	40	59	49	54	4 below.	6	8	1 less.	35	38
	8. ENGLAND, S.W.	70	36	62	49	55	3 below.	6	12	4 more.	38	42
	9. IRELAND, N.	63	36	59	47	53	3 below.	5	8	0 (average).	35	38
	10. IRELAND, S.	66	40	61	49	55	3 below.	5	5	4 less.	35	38

General Remarks.

Weather, with the exception of a few bright intervals, has been cloudy, cold, and showery.

Temperature has been below the mean in all districts, the deficit varying from 1° or 2° in Scotland and the N.E. of England and 3° in Ireland and the S.W. of England to 4° in north-western, southern, and central England, and to 5° in "England, E." The maxima were recorded in most places on the 9th, and ranged from 63° in "Ireland, N." to 70° over the midland, southern, and south-western parts of England. The minima, which were generally registered during the night of the 9th-10th over Great Britain (only a few hours after the maxima) and on various dates in Ireland, ranged from 40° in the N.E. and N.W. of England and in "Ireland, S." to 33° in "Ireland, N." and over the south-western, southern, and central English counties.

Rainfall has been a little less than the mean in "Ireland, S." and Scotland, and abou equal to it in "England, N.E." and "Ireland, N.", but rather more elsewhere.

Bright sunshine has been more prevalent than during last week, the percentages of possible duration varying from 30 in "England, S." to 42 in "England, N.E." and "England, S.W."

Depressions observed.—Barometric pressure over our Islands and their neighbourhood has fluctuated considerably. Some large and rather deep depressions have been shown to the northward of Scotland, while over the United Kingdom several small subsidiary disturbances, moving eastwards, have appeared. Moderate or fresh southerly to south-westerly breezes have consequently prevailed on our coasts as the various depressions advanced, and westerly to north-westerly winds in their rear as they travelled away.

R 8848. 100 & 470.—9/83. Wt. 32. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending September 10, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, September 4.

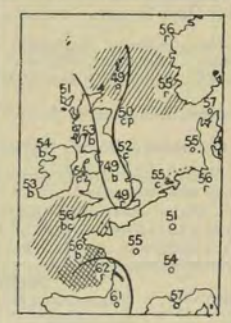
Weather still improving slowly, but not yet settled. Occasional showers experienced in most places during the day.

Temperature fallen slightly; the maximum readings over England varying from 60° to 65°.

Wind north-westerly and westerly; moderate to fresh in force generally, but blowing a slight gale at Aberdeen. South-westerly breezes setting in at Valencia in the afternoon.

Sea rather rough in W. and N., but going down slowly.

Barometer rising unsteadily. Sunday's depression now off the W. of Norway and moving northwards. Subsidiary appearing in S. of Ireland at night.



Wednesday, September 5.

Weather dull and rainy over the south-eastern counties, fine elsewhere; the fine weather subsequently extending to our south-eastern districts also.

Temperature showing still further reduction; the maximum readings recorded being but little above 60° even over our inland counties.

Wind northerly and light—calm at Valencia in morning. Westerly and south-westerly breezes setting in over the W. of Ireland later on.

Sea going down, but still rough in the S.W. and extreme N.

Barometer highest in W. and S.W., lowest in N. The subsidiary depression noticed yesterday, after passing over our southern counties, now found over the N.E. of France, and moving east-south-eastwards.

Thursday, September 6.

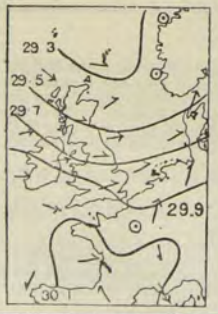
Weather changeable, and at times showery. Sky cloudy, and air very unseasonable.

Temperature continuing low (maximum in London only 57°) and diurnal range small.

Wind varying between S.W. and N.W., and at times blowing freshly.

Sea still rather rough in W. and N.; a high "ground swell" reported off the W. of Ireland.

Barometer falling a little. Readings highest in S., lowest in N., shallow subsidiary depression still passing eastward over England.



Friday, September 7.

Weather remaining cloudy and showery on the whole, but with occasional intervals of bright blue sky.

Temperature rather higher at 8 a.m. than at the same hour on the 6th; the maxima again but little above 60°.

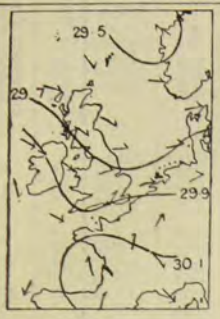
Wind westerly and north-westerly; fresh to strong at first but moderating in the S. later.

Sea rough on exposed parts of our western and southern coasts.

Barometer fallen considerably in the N., slightly elsewhere; remaining unsteady all day, especially in the S.W. and S.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Saturday, September 8.

Weather again showery in the S., but much improved in all other parts of the kingdom. Lightning S.E. during afternoon.

Temperature rising; maxima recorded as high as 70° at Prawle Point, 69° at Hurst Castle, and 66° in London.

Wind chiefly north-westerly, and moderating in force, after blowing strongly in the Channel during the earlier hours.

Sea continuing rather rough in the W. and S.

Barometer rising in W. and N., falling slightly in S.; the rise subsequently extending to our southern counties as a shallow local depression in that region passed off.

Sunday, September 9.

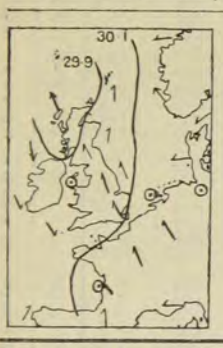
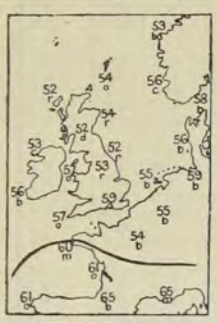
Weather very fine over Great Britain, but slightly foggy in some places during the earlier hours; cloudy in Ireland and afterwards rainy.

Temperature rising, and attaining a maximum of 69° in several parts of England during the day.

Wind returning to S. and S.W., but remaining westerly in the E.; moderate in the W.

Sea smooth.

Barometer now highest over France; falling briskly over our Islands all day, gradients becoming favourable for southerly winds.

Monday, September 10.

Weather completely broken up again; sometimes showery, sometimes clear. Heavy rain over England at night.

Temperature changing irregularly; maxima only 60° to 66°.

Wind moderate; southerly and south-easterly over Great Britain, northerly and north-westerly in Ireland. The northerly wind subsequently spreading eastwards, to the northern parts of Great Britain, while over our southern counties the wind backed round through E. to N.E. and N.

Sea rather rough in far N.

Barometer unsteady. An elongated depression moving eastwards over England. Its northern part subsequently filling up, while its southern part formed into a new depression which travelled south-eastwards to France.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➾ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	56	43	54·4	46·6	50·5	−2·0	4	1·30	+0·77	*	*
	Stornoway	58	44	56·7	47·3	52·0	−0·5	7	1·04	0·00	46	49
	Wick	60	42	58·0	46·4	52·2	−1·2	6	0·50	−0·20	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	62	51	59·4	53·4	56·4	−3·6	5	1·01	+0·12	*	*
	Jersey (Noirmont)	62	52	60·9	53·3	57·1	−3·9	6	0·99	+0·35	29	32

† The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	60	46	59·1	48·1	53·6	− 0·4	7	0·77	+0·06	*	*
	Aberdeen	62	39	60·3	46·0	53·2	− 1·0	6	0·18	−0·62	36	39
	Leith	65	44	63·4	47·7	55·6	− 0·3	4	0·11	−0·49	*	*
2. ENGLAND, N.E.	Alnwick Castle	62	42	59·1	45·7	52·4	− 2·4	6	0·33	?	*	*
	Shields	65	43	60·0	46·4	53·2	− 2·1	5	0·44	−0·16	*	*
	Durham	65	40	61·3	43·9	52·6	− 3·0	4	0·37	−0·23	42	46
	Scarborough ℔	64	45	60·7	48·2	54·5	− 1·9	5	0·81	+0·15	*	*
	York	68	43	62·1	47·3	54·7	− 2·3	6	1·13	+0·43	34	37
	Spurn Head	62	49	59·6	50·4	55·0	− 2·0	3	0·54	?	*	*
3. ENGLAND, E.	Hillington ℔	68	38	63·3	44·4	53·9	− 3·8	4	0·97	+0·37	34	37
	Yarmouth	62	42	61·0	47·7	54·4	− 4·3	4	0·22	−0·41	*	*
	Geldeston	66	41	63·6	46·2	54·9	− 3·8	4	0·31	−0·22	36	40
	Cambridge	68	40	63·3	45·1	54·2	− 5·3	4	1·01	+0·51	31	34
	Rothamsted	67	38	62·2	44·2	53·2	− 5·7	5	0·74	+0·14	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	69	40	62·1	45·7	53·9	− 4·0	5	1·36	+0·78	*	*
	Loughborough	69	38	62·6	46·1	54·4	− 3·5	3	1·00	+0·37	*	*
	Leicester	70	41	62·7	46·7	54·7	− 3·3	5	1·13	+0·53	30	33
	Birmingham (Oscott)										*	*
	Cheadle ℔	63	43	58·4	46·6	52·5	− 4·5	6	1·50	?	*	*
	Churchstoke ℔	64	38	60·4	44·0	52·2	− 5·1	6	1·45	?	36	39
	Hereford ℔	66	36	62·8	46·2	54·5	− 3·9	5	0·93	+0·23	*	*
	Cirencester	64	36	61·0	45·0	53·0	− 5·5	4	0·97	+0·18	30	33
	Oxford	67	41	62·4	47·1	54·8	− 4·2	6	0·80	+0·10	34	37
5. ENGLAND, S.	London†	69	41	63·7	46·6	55·2	− 5·1	4	1·21	+0·63	22	24
	Marlborough ℔	68	37	62·1	44·8	53·5	− 4·2	5	0·77	+0·02	33	36
	Strathfield Turgiss ℔	69	36	64·5	44·0	54·3	− 5·2	3	0·29	−0·31	*	*
	Dover	64	48	61·4	51·1	56·3	− 3·4	5	0·80	+0·20	*	*
	Hastings (St. Leonard's)	66	47	62·2	50·8	56·5	− 2·9	5	1·39	+0·79	24	26
	Southampton	70	42	64·1	48·5	56·3	− 2·5	5	0·71	?	30	33
	Hurst Castle	69	44	60·9	49·4	55·2	− 3·8	4	0·98	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	59	46	57·4	48·3	52·9	− 2·5	7	2·65	?	*	*
	Glasgow	61	44	58·5	47·0	52·8	− 2·2	5	0·75	−0·28	38	41
	Ardrossan	62	46	60·4	49·0	54·7	− 0·3	5	0·58	−0·45	*	*
	Silloth (Cumberland)	65	39	62·2	46·7	54·5	− 2·5	5	0·47	−0·38	31	34
	Douglas (Isle of Man)	63	41	59·8	45·3	52·6	− 2·9	5	0·97	+0·17	45	49
7. ENGLAND, N.W.	Barrow-in-Furness	63	46	60·3	50·3	55·3	− 1·7	7	0·50	?	*	*
	Stonyhurst	63	42	58·3	46·4	52·4	− 4·3	6	0·76	−0·47	38	41
	Blackpool ℔	64	40	59·0	48·8	53·9	− 3·6	7	1·26	+0·41	36	39
	Manchester	64	40	59·2	45·8	52·5	− 5·0	6	0·81	−0·09	*	*
	Liverpool Obs? (Bidston)	65	47	59·6	50·0	54·8	− 3·5	6	1·27	+0·57	*	*
	Llandudno ℔	67	46	59·9	50·8	55·4	− 3·4	6	0·42	−0·37	30	33
	Holyhead	62	49	59·3	50·9	55·1	− 3·0	4	0·64	−0·12	*	*
8. ENGLAND, S.W.	Pembroke	61	48	58·9	51·3	55·1	− 0·9	5	0·91	+0·06	43	47
	Arlington (N. Devon)	63	40	59·9	46·7	53·3	− 4·1	7	1·58	?	*	*
	Cullompton ℔	65	36	63·1	46·7	54·9	− 4·2	6	1·15	?	38	42
	Falmouth	62	48	60·4	51·5	56·0	− 3·5	5	1·17	+0·47	33	36
	Plymouth	65	43	63·7	49·2	56·5	− 3·5	6	1·36	+0·47	38	42
	Prawle Point	70	46	63·0	49·9	56·5	− 0·5	6	0·89	?	*	*
9. IRELAND, N.	Londonderry	63	45	59·7	47·6	53·7	− 2·1	7	0·95	+0·08	*	*
	Mullaghmore	60	43	58·1	49·4	53·8	− 2·9	5	1·04	?	*	*
	Markree Castle	61	36	59·1	46·5	52·8	− 4·1	6	0·94	+0·14	30	33
	Brookeborough	62	39	58·8	44·4	51·6	− 5·3	5	0·81	?	*	*
	Armagh	60	43	58·7	47·0	52·9	− 3·8	5	0·46	−0·24	39	42
	Donaghadee	63	45	60·4	46·4	53·4	− 2·1	4	0·33	?	*	*
10. IRELAND, S.	Dublin	63	43	60·5	48·3	54·4	− 2·5	4	0·20	−0·35	39	42
	Parsonstown	63	40	59·9	46·3	53·1	− 4·9	5	0·49	−0·36	34	37
	Roche's Point	66	46	62·4	49·3	55·9	− 1·9	4	0·46	−0·57	*	*
	Valencia	63	47	60·3	51·0	55·7	− 2·2	5	0·90	−0·21	33	36
	Foynes										*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 37.] WEEK ENDING MONDAY, SEPTEMBER 17, 1883. [*Price 2d.*

[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	71	34	63	47	55	1 above.	2	1	6 less.	31	35
	2. ENGLAND, N.E.	72	44	62	51	56	1 above.	2	3	4 less.	30	34
	3. ENGLAND, E.	75	42	67	51	59	2 above.	1	1	5 less.	39	44
	4. MID. COUNTIES	75	40	67	49	58	2 above.	1	1	6 less.	37	41
	5. ENGLAND, S.	77	43	67	52	59	2 above.	1	1	6 less.	36	41
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	68	37	63	48	55	1 above.	0	—	10 less.	43	48
	7. ENGLAND, N.W.	72	43	64	50	57	0 (average).	0	—	9 less.	52	58
	8. ENGLAND, S.W.	70	45	63	51	57	1 below.	0	—	9 less.	42	48
	9. IRELAND, N.	68	35	63	47	55	0 (average).	1	less than ½	8 less.	31	36
	10. IRELAND, S.	69	39	63	47	55	2 below.	1	1	8 less.	36	40

General Remarks.

Weather during this week has been characterized by clear, fine, and warm days, and cool, foggy, or misty nights and early mornings, and very heavy dews. Scarcely any rain has fallen, but some local thunderstorms were experienced over England towards the close of the period, that which passed over London during the afternoon of the 17th being accompanied, in the northern suburbs, by unusually heavy rain.

Temperature has been slightly below or about equal to the mean in Ireland and the W. of England, but 1° or 2° above it elsewhere. The maxima were generally registered on the 17th, and varied between 68° and 71° in the western and extreme northern parts of the Kingdom, and between 75° and 77° over eastern, central, and southern England. The minima, which were recorded on the 12th in Scotland and a few days later elsewhere, ranged from 45° in "England, S.W." and 44° in "England, N.E.", to 37° in "Scotland, W.", 35° "Ireland, N.", and 34° in "Scotland, E."

Rainfall has been very much less than the mean in all districts. At most stations in the W. of Great Britain the weather was altogether rainless.

Bright sunshine shows a decided increase in duration in nearly all places, the percentages varying from 58 in "England, N.W." to 48 in "Scotland, W." and "England, S.W." to 34 in "England, N.E."

Depressions observed.—Pressure has been highest over Scandinavia and rather high and uniform over the whole of our area, but lower to the westward and south-westward than elsewhere. The only depression, in addition to some very shallow ones over England towards the close of the week, was one which was travelling east south-eastwards over our southern counties as the week commenced. The winds on the 11th were moderate from the northward on all our coasts, and during the next few days north-easterly in the S. and E. and southerly in the W. and N., but subsequently became very light and variable in all districts.

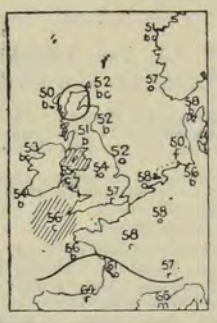
R 8900. 100 & 470.—9/83. Wt. 32. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending September 17, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Tuesday, September 11.

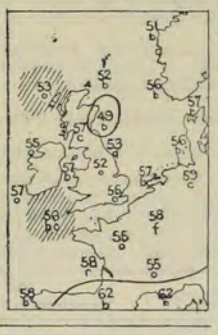
Weather dull and wet over our south-eastern and eastern counties, but clearing up elsewhere; the finer weather extending to our south-eastern counties later.

Temperature low; the maxima at most stations being only 60° or lower, but rising to 63° at one or two Scotch stations and 66° at Prawle Point.

Wind rather strong from northward in England and Ireland, light from the north-westward in Scotland; subsequently falling light all over the kingdom.

Sea rather rough in the W., but soon going down.

Barometer rising generally, most in N. and W. Yesterday's depression now found over the N.E. of France, moving south-eastward, and subsequently growing shallower again.



Wednesday, September 12.

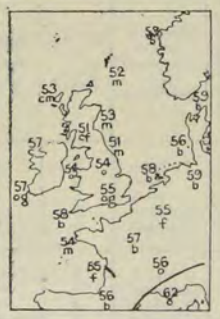
Weather dull at first, and hazy in places; subsequently becoming bright generally. Very fine day.

Temperature rising decidedly—to between 70° and 72° at many of the inland stations in England.

Wind remaining northerly, light to moderate over England, but shifting to the southward in Ireland and Scotland, and blowing freshly at the extreme western stations.

Sea rather rough at Scilly and Stornoway, moderate to smooth elsewhere.

Barometer falling slightly and temporarily in the extreme W. and N.W., rising elsewhere. Yesterday's depression dispersed.



Thursday, September 13.

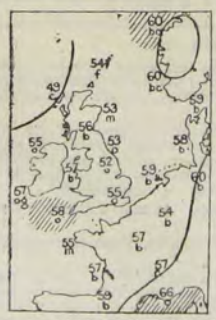
Weather remaining fine, but foggy and gloomy in most places during the earlier hours, with heavy dew.

Temperature (after cool night) again rising considerably during the afternoon, and attaining a maximum of 68° or 69° over our inland counties.

Wind remaining light or moderate in force; northerly over the eastern, and southerly or south-easterly over the western parts of our islands. No important change later.

Sea slight or smooth very generally.

Barometer now highest over northern Europe; a ridge extending thence in a south-westerly direction over the North Sea and our islands. Readings comparatively uniform, and barometer rising.



Friday, September 14.

Weather again very fine, with night fogs and heavy dews. Rain and thunderstorms in E. of France.

Temperature showing great diurnal variations, the thermometer rising to between 70° and 73° again in the shade over England during the afternoon.

Wind light to moderate generally; north-easterly over England, easterly in Ireland, variable in Scotland, and also over France.

Sea very little disturbed.

Barometer rather lower than yesterday, but more uniform over the United Kingdom than it was yesterday. Shallow depressions appearing over France.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, September 15.

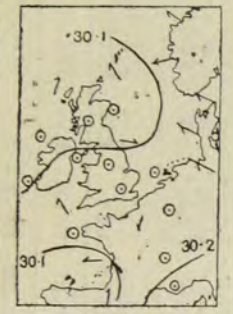
Weather still fine in most places, but local thunder showers observed at some of our extreme southern and eastern stations.

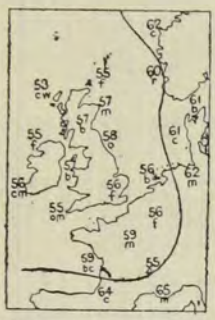
Temperature not reaching quite so high a value in our Islands as on the 14th, but nevertheless rising to between 64° and 70° in various places during the day.

Wind light, north-easterly in Scotland and Ireland, extremely light and variable over England. No important change later.

Sea smooth or slight very generally.

Barometer still falling; yesterday's French depressions advancing northwards, some towards England, and others travelling up our E. coast. Barometer beginning to rise in the S. later.





Sunday, September 16.

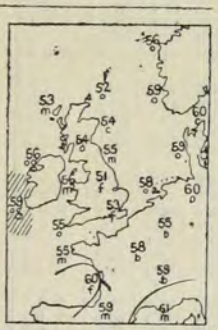
Weather very fine again, but much fog still prevailing during the early morning, and heavy dews.

Temperature uniformly low in the morning, but rising to between 70° and 74° over England during the day, and to 71° even at Leith.

Wind consisting simply of variable airs and calms in almost all districts.

Sea unusually smooth.

Barometer rising, and reading remarkably uniform all over the British Islands.



Monday, September 17.

Weather fine, very foggy, and air moist and dewy, at first, and undergoing but little alteration in most places during day. Some sharp thunderstorms occurred locally in a few parts of England later; that over the N. of London being exceptionally heavy, though not reaching to the southern suburbs.

Temperature again rising greatly during the day; maxima over England 70° to 77°.

Wind moderate, southerly in Ireland, extremely light and variable over England.

Sea becoming rough in far W.

Barometer showing little motion, and readings remaining very uniform; some tendency for a prevalence of southerly gradients becoming general.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	60	45	56·7	49·6	53·2	+1·6	1	0·28	−0·23	*	*
	Stornoway	65	41	59·7	46·7	53·2	+1·8	1	0·32	−0·77	36	40
	Wick	61	36	58·9	45·0	52·0	−0·2	0	—	−0·70	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	52	59·7	53·9	56·8	−2·2	0	0·01‖	−0·99	*	*
	Jersey (Noirmont)	70	54	64·1	55·3	59·7	−0·4	3	0·34	−0·34	38	44

† The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1. ‖ Dew.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	70	40	63·7	46·0	54·9	+ 1·8	2	0·06	−0·67	*	*
	Aberdeen	64	34	61·6	47·1	54·4	+ 1·3	3	0·21	−0·59	31	35
	Leith	71	38	62·9	47·4	55·2	+ 0·6	2	0·08	−0·52	*	*
2. ENGLAND, N.E.	Alnwick Castle	65	44	59·3	49·7	54·5	+ 0·8	1	0·12	?	*	*
	Shields	65	48	59·0	50·4	54·7	+ 0·6	2	0·29	−0·33	*	*
	Durham	72	47	63·5	49·9	56·7	+ 1·8	5	0·69	+0·09	24	27
	Scarborough ℳ	65	51	59·8	53·1	56·5	+ 1·1	2	0·10	−0·60	*	*
	York	72	47	68·0	49·4	58·7	+ 2·8	2	0·28	−0·43	36	41
	Spurn Head	65	52	61·3	53·6	57·5	+ 1·5	1	0·05	?	*	*
3. ENGLAND, E.	Hillington ℳ	74	43	68·1	51·0	59·6	+ 3·5	2	0·08	−0·53	36	41
	Yarmouth	65	51	62·6	55·0	58·8	+ 1·5	1	0·07	−0·63	*	*
	Geldeston	74	42	67·8	51·2	59·5	+ 2·0	1	0·14	−0·43	45	51
	Cambridge	75	43	69·1	50·6	59·9	+ 1·4	1	0·12	−0·51	35	40
	Rothamsted	71	43	66·1	48·1	57·1	− 0·3	1	0·15	−0·45	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	75	40	67·0	50·0	58·5	+ 2·0	3	0·57	−0·03	*	*
	Loughborough	75	45	69·3	50·1	59·7	+ 3·2	1	0·02	−0·68	*	*
	Leicester	75	44	68·7	50·4	59·6	+ 3·1	3	0·03	−0·60	25	28
	Birmingham (Oscott)										*	*
	Cheadle ℳ	69	45	65·6	47·2	56·4	+ 1·0	0	—	?	*	*
	Churchstoke ℳ	73	41	67·4	45·2	56·3	+ 1·4	0	—	?	52	59
	Hereford ℳ	73	42	67·3	48·0	57·7	+ 0·9	1	0·01	−0·66	*	*
	Cirencester	71	46	64·3	49·6	57·0	0·0	1	0·01	−0·82	34	38
	Oxford	74	47	66·0	51·6	58·8	+ 1·5	1	0·07	−0·59	35	40
5. ENGLAND, S.	London†	77	50	69·6	53·7	61·7	+ 3·0	1	0·12	−0·48	28	32
	Marlborough ℳ	73	46	66·0	49·3	57·7	+ 1·4	2	0·03	−0·87	35	40
	Strathfield Turgiss ℳ	73	45	68·6	50·2	59·4	+ 1·4	2	0·03	−0·63	*	*
	Dover	67	52	63·9	55·0	59·5	+ 1·4	1	0·34	−0·33	45	51
	Hastings (St. Leonard's)	72	53	67·4	54·9	61·2	+ 3·1	1	0·17	−0·46	*	*
	Southampton	73	43	67·1	49·8	58·5	+ 1·2	1	0·06	?	36	41
	Hurst Castle	68	47	64·0	50·9	57·5	− 0·5	1	0·09	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	68	41	63·3	47·8	55·6	+ 1·5	0	—	?	*	*
	Glasgow	65	38	61·0	47·8	54·4	+ 0·3	0	—	−1·10	31	35
	Ardrossan	68	42	62·6	48·4	55·5	+ 1·7	0	—	−1·04	*	*
	Silloth (Cumberland)	67	37	65·5	46·7	56·1	+ 0·1	0	—	−0·90	52	59
	Douglas (Isle of Man)	66	38	63·9	47·0	55·5	+ 1·6	0	—	−0·80	45	51
7. ENGLAND, N.W.	Barrow-in-Furness	72	47	66·0	50·6	58·3	+ 2·6	0	—	?	*	*
	Stonyhurst	68	47	65·8	49·7	57·8	+ 2·6	0	—	−1·30	49	56
	Blackpool ℳ	69	44	63·5	46·6	55·1	− 0·9	0	—	−0·90	59	65
	Manchester	70	48	65·5	48·4	57·0	+ 1·0	0	—	−0·89	*	*
	Liverpool Obsy (Bidston)	70	43	64·4	50·1	57·3	+ 0·2	0	—	−0·97	*	*
	Llandudno ℳ	66	48	62·8	50·5	56·7	− 1·2	0	—	−0·87	48	54
	Holyhead	65	48	60·9	51·4	56·2	− 1·3	0	—	−0·80	*	*
8. ENGLAND, S.W.	Pembroke	64	48	60·7	51·3	56·0	+ 1·0	0	‖0·01	−0·89	44	50
	Arlington (N. Devon)	70	45	64·7	48·1	56·4	+ 0·1	0	—	?	*	*
	Cullompton ℳ	73	44	67·0	48·4	57·7	− 0·3	0	—	?	39	44
	Falmouth	63	50	60·5	52·5	56·5	− 1·8	0	—	−0·71	41	47
	Plymouth	66	47	64·0	49·1	56·6	− 2·3	0	—	−1·00	43	49
	Prawle Point	66	48	62·9	51·9	57·4	+ 1·4	0	—	?	*	*
9. IRELAND, N.	Londonderry	68	42	65·8	46·3	56·1	+ 1·6	1	0·01	−0·89	*	*
	Mullaghmore	65	49	61·4	51·7	56·6	+ 1·0	1	0·01	?	*	*
	Markree Castle	68	40	63·8	45·1	54·5	− 1·3	2	0·03	−0·77	29	33
	Brookeborough	68	35	64·0	42·6	53·3	− 2·2	0	—	?	*	*
	Armagh	64	42	61·8	47·0	54·4	− 1·1	0	—	−0·75	33	38
	Donaghadee	63	37	61·1	47·7	54·4	0·0	0	—	?	*	*
10. IRELAND, S.	Dublin	64	41	62·0	46·1	54·1	− 1·4	0	—	−0·55	47	53
	Parsonstown	69	39	64·0	43·7	53·9	− 3·2	0	—	−0·86	35	40
	Roche's Point	65	43	62·6	47·4	55·0	− 1·5	1	0·20	−0·91	*	*
	Valencia	65	48	61·7	51·7	56·7	− 0·3	2	0·23	−0·96	25	28
	Foynes										*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

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‖ Dew.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

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ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

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3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Offices the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	62	33	57	45	51	2 below.	5	5	2 less.	19	22
	2. ENGLAND, N.E.	75	41	59	50	55	1 above.	5	13	6 more.	12	14
	3. ENGLAND, E.	76	39	65	49	57	1 above.	4	6	0 (average).	25	30
	4. MID. COUNTIES	77	37	65	50	58	3 above.	5	12	5 more.	16	19
	5. ENGLAND, S.	76	41	65	52	59	2 above.	5	10	3 more.	20	23
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	70	39	60	49	55	1 above.	5	13	4 more.	16	19
	7. ENGLAND, N.W.	74	41	62	52	57	2 above.	5	16	6 more.	17	20
	8. ENGLAND, S.W.	71	45	63	54	58	3 above.	5	16	6 more.	20	23
	9. IRELAND, N.	71	39	62	51	56	3 above.	5	13	4 more.	16	19
	10. IRELAND, S.	67	45	63	53	58	3 above.	5	12	2 more.	23	27

General Remarks.

Weather has been generally cloudy or dull and very unsettled, with a good deal of rain in nearly all parts of the Kingdom.

Temperature has been a little below the mean in "Scotland, E.", but elsewhere it has ranged from 1° to 3° above it. The maxima were registered in most places during the first day of the period, and varied from 62° in "Scotland, E." and 67° in "Ireland, S.", to between 75° and 77° over the greater part of England. The minima, which were very generally recorded on the 23rd, ranged from 45° in "England, S.W." and "Ireland, S.", to 37° in the "Midland Counties" and to 33° in "Scotland, E."

Rainfall has been about equal to the mean in "England, E." and rather less in "Scotland, E.", but in all other districts a decided excess is reported.

Bright sunshine has been much less prevalent than during last week in all districts, the percentages of possible duration being as low as 14 in "England, N.E.", and between 19 and 30 elsewhere.

Depressions observed.—Barometric pressure in our Islands and their neighbourhood has oscillated considerably. At the commencement of the period it was high and uniform, but by the 20th a depression, which subsequently moved away north-north-westwards, had reached the S.W. of Ireland from the Atlantic, causing the barometer to fall on all our coasts, and the wind to blow freshly or strongly from the south-westward or southward in the S.W., and from E. or N.E. in most other places. On the 21st and 22nd, the gradients were less steep and the winds moderate or light, but over England some small subsidiary depressions were shown. On the 23rd, a temporary ridge of high pressure stretched from France to the extreme N. of Scotland, while a depression lay over southern Scandinavia, and comparatively low pressures were reported from Ireland. At the close of the period the barometer had again fallen at all our stations, some more subsidiary disturbances had appeared over England, and a larger depression off our N.W. coasts, the winds being generally fresh or strong from the southward or south-westward.

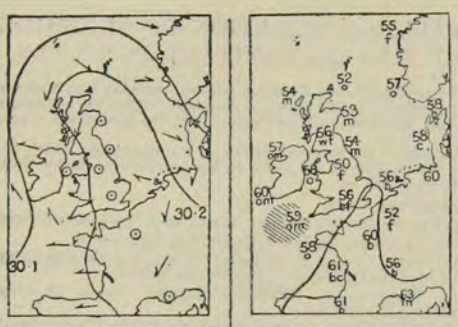
R 8968. 100 & 470.—9/83. Wt. 32. E. & S.

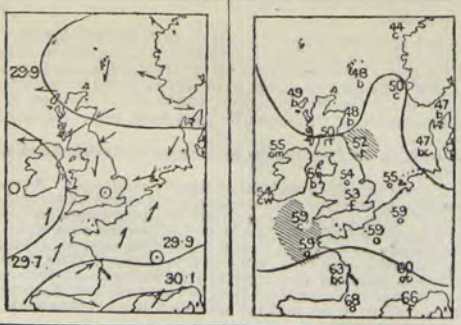
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending September 24, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Tuesday, September 18.

Weather dull and misty in the W. and N., fine but foggy elsewhere.

Temperature little changed; readings ranging from 61° at Dover to 52° at Sumburgh Head. Highest maxima 77° at Loughborough and 76° in London and at Cambridge.

Wind moderate south-easterly on our W. coast, and north-westerly on eastern shores of North Sea, but light and variable elsewhere. South-easterly breezes becoming more general later.

Sea smooth, except at Scilly.

Barometer rising at all but the Scandinavian and western French stations. Long band of high pressure extending from France over our eastern and northern coasts, with depressions in the extreme N. of Norway.

Wednesday, September 19.

Weather dull and unsettled at all but the south-eastern stations, with fog and rain locally.

Temperature little changed; readings ranging from 60° at Valencia, Dover, and Yarmouth, to 50° in the Shetlands. Highest maxima 76° in London and 75° at Cambridge.

Wind north-westerly in Scandinavia, but southerly or south-easterly in our Islands and France. Light or moderate in force at most stations.

Sea rough at the mouth of the Channel, slight or smooth elsewhere.

Barometer falling generally. Band of relatively high readings still lying over our eastern and northern coasts, with low pressure over Sweden and also off the south-west of our Islands. Area of high readings giving way later.

Thursday, September 20.

Weather cloudy or overcast generally, with rain in many places.

Temperature fallen a little in N., but very little changed elsewhere; readings varying from 61° at Scilly and Yarmouth to 48° at Sumburgh Head and Wick. Maxima over England more than 10° lower than on previous day.

Wind south-westerly or southerly in S., but easterly or north-easterly in N.; strong in force at several of the northern stations.

Sea rough in the S.W., W., and N.W.; moderate or slight elsewhere.

Barometer falling generally. Readings highest in the S. of France, with area of low pressure in the S. of Sweden, and well defined depression lying off the S. of Ireland. Depression moving away north-westwards later, and barometer rising in south-west.

Friday, September 21.

Weather fine in Scandinavia and the greater part of Scotland, cloudy or overcast elsewhere, with rain and fog locally, and a thunderstorm at Lyons.

Temperature fallen generally, readings ranging from 59° at Scilly to 46° at Nairn. Maximum in London only 60°, at York 55°, and at Shields 53°.

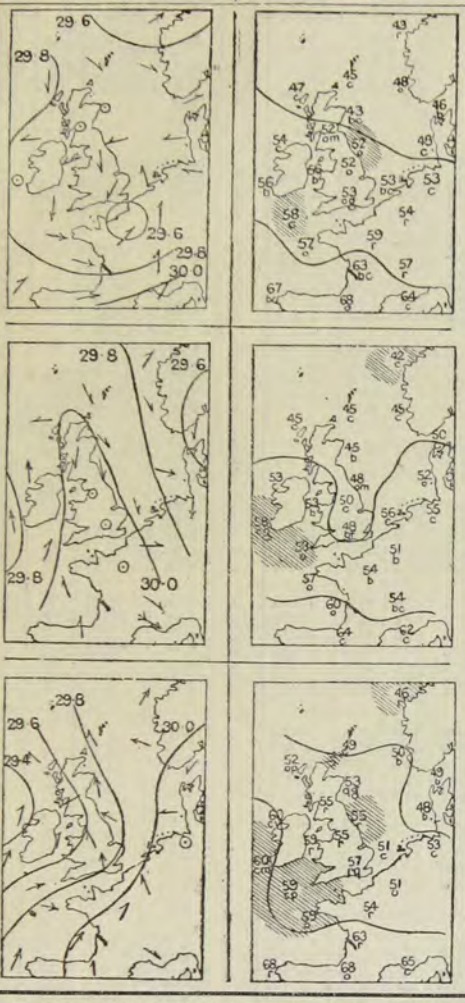
Wind south-westerly in France, variable in the south-east of England, and easterly on our northern coasts; fresh or strong in force in the north of Ireland.

Sea rather rough at the mouth of the Channel, and also at Shields; slight or smooth elsewhere.

Barometer rising a little west; falling elsewhere. Pressure highest over the S. of France, and lowest off the W. of Ireland, but some small shallow depressions lying over the S.E. of England. Subsequent changes slight and irregular.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, September 22.

Weather cloudy or overcast at all but the Swedish and Danish stations, with mist or fog in many localities. General improvement taking place later.

Temperature fallen slightly; readings ranging from 58 at Scilly to 43° at Aberdeen. Maxima rather low in Scotland, —Nairn only 50°.

Wind strong westerly in the Bay of Biscay, but light or moderate from N. or N.E. in our Islands.

Sea rather rough in the N.E. and also at Scilly, moderate or slight elsewhere.

Barometer falling at all but the Irish stations. Readings still highest S. of France, with large depression off the north-west of Norway and small shallow disturbances over the N.E. of France. Latter consequently moving eastward, and baromerer rising generally.

Sunday, September 23.

Weather dull in the S.W., fine elsewhere. Cloud extending eastwards and northwards later and rain falling in W.

Temperature fallen; reading ranging from 58° on our S.W. coasts to 42° at Wick and Nairn. Highest maxima 67° in London and 66° at Cambridge.

Wind southerly or south-easterly in the W. of our Islands, but north-westerly on the shores of the North Sea. South-easterly winds increasing to gale in W. later.

Sea rough in the S.W., slight or smooth elsewhere.

Barometer rising at all but our extreme western stations. Ridge of high pressure lying over Great Britain with depression over the S. of Sweden and new one approaching the W. of Ireland. Fall taking place generally later.

Monday, September 24.

Weather dull and rainy in almost all parts of the kingdom. Considerable improvement taking place later, but showers still falling locally.

Temperature risen several degrees; readings ranging from 61° at Jersey to 49° at Sumburgh Head. Highest maxima 68° at Donaghadee, and 67° in London.

Wind south-westerly in W. and S., but south-easterly in E. and N.; fresh or strong in force on all coasts, with slight gale in Scotland.

Sea rough at most stations.

Barometer rising on eastern shores of North Sea, falling elsewhere. Readings still highest S. of France, with large and rather deep depression off the W. of Ireland. Disturbance moving northwards later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	54	37	52·4	42·9	47·7	−2·8	4	0·16	−0·34	*	*
	Stornoway	58	38	54·9	45·4	50·2	−0·1	3	0·25	−0·85	26	31
	Wick	59	34	55·6	45·0	50·3	−0·7	5	0·20	−0·50	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	54	62·4	55·4	58·9	+0·8	6	2·14	+1·04	*	*
	Jersey (Noirmont)	69	54	65·3	56·7	61·0	+2·0	5	1·82	+1·10	37	46

† The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	59	37	55·9	44·1	50·0	− 1·9	3	0·34	−0·37	*	*
	Aberdeen	60	33	56·1	43·9	50·0	− 1·9	5	0·28	−0·55	19	22
	Leith	62	39	57·6	45·9	51·8	− 1·2	6	0·86	+0·25	*	*
2. ENGLAND, N.E.	Alnwick Castle	60	41	56·4	49·0	52·7	+ 0·2	6	1·86	?	*	*
	Shields	60	42	56·7	48·3	52·5	− 0·3	7	1·04	+0·39	*	*
	Durham	69	41	59·6	47·8	53·7	0·0	5	1·50	+0·90	11	13
	Scarborough ℳ	65	45	59·2	50·7	55·0	+ 0·7	4	1·54	+0·81	*	*
	York	75	45	63·3	49·1	56·2	+ 1·7	6	1·15	+0·45	13	15
	Spurn Head	63	50	59·9	53·6	56·8	+ 2·1	3	0·60	?	*	*
3. ENGLAND, E.	Hillington ℳ	74	41	66·1	48·2	57·2	+ 2·4	3	1·06	+0·45	26	31
	Yarmouth	64	45	61·3	52·7	57·0	+ 1·1	5	0·45	−0·30	*	*
	Geldeston	72	40	64·8	49·8	57·3	+ 1·2	3	0 58	+0·02	26	31
	Cambridge	76	41	67·3	48·0	57·7	+ 0·7	3	0·42	−0·13	24	28
	Rothamsted	73	39	65·4	47·7	56·6	+ 0·6	6	0·67	−0·03	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	75	48	64·7	?50·4	?57·6	?+ 2·6	4	1·89	+1·29	*	*
	Loughborough	77	45	66·3	51·0	58·7	+ 3·7	3	0·89	+0·14	*	*
	Leicester	77	42	67·6	51·3	59·5	+ 4·5	5	1·22	+0·57	17	20
	Birmingham (Oscott)										*	*
	Cheadle ℳ	72	42	62·8	50·3	56·6	+ 2·9	6	1·44	?	*	*
	Churchstoke ℳ	71	37	63·1	47·6	55·4	+ 0·8	4	1·12	?	15	18
	Hereford ℳ	69	42	64·5	50·9	57·7	+ 2·7	5	1·52	+0·72	*	*
	Cirencester	70	43	64·1	51·0	57·6	+ 2·1	7	1·28	+0·40	14	16
	Oxford	72	45	65·0	49·9	57·5	+ 1·5	5	0·73	+0·02	19	22
5. ENGLAND, S.	London†	76	41	67·0	49·9	58·5	+ 1·4	4	0·38	−0·25	20	23
	Marlborough ℳ	69	42	64·9	50·6	57·8	+ 2·8	5	1·05	+0·12	19	22
	Strathfield Turgiss ℳ	73	42	67·0	49·3	58·2	+ 1·9	3	0·71	+0·01	*	*
	Dover	66	50	62·6	54·6	58·6	+ 2·0	5	0·88	+0·18	*	*
	Hastings (St. Leonard's)	70	48	63·5	55·4	59·5	+ 2·7	6	0·85	+0·15	20	24
	Southampton	70	47	65·8	53·2	59·5	+ 3·5	5	1·45	?	20	24
	Hurst Castle	69	49	64·1	54·0	59·1	+ 2·5	6	1·69	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	66	39	59·0	48·0	53·5	+ 0·5	4	0·96	?	*	*
	Glasgow	62	44	57·0	47·9	52·5	− 0·5	5	1·45	+1·33	9	11
	Ardrossan	66	44	59·4	49·0	54·2	+ 1·6	6	0·87	−0·17	*	*
	Silloth (Cumberland)	70	43	62·0	50·1	56·1	+ 1·3	5	1·11	+0·16	15	18
	Douglas (Isle of Man)	66	42	61·7	50·5	56·1	+ 3·4	6	1·91	+1·11	24	28
7. ENGLAND, N.W.	Barrow-in-Furness	67	48	62·1	52·0	57·1	+ 2·5	4	1·71	?	*	*
	Stonyhurst	69	46	61·8	51·2	56·5	+ 1·8	5	1·74	+0·35	10	12
	Blackpool ℳ	68	41	61·7	51·2	56·5	+ 1·7	5	1·54	+0·54	19	22
	Manchester	74	44	63·8	51·0	57·4	+ 2·8	4	1·68	+0·64	*	*
	Liverpool Obsy (Bidston)	68	49	63·0	52·3	57·7	+ 1·9	4	1 82	+0·76	*	*
	Llandudno ℳ	64	53	61·7	55·0	58·4	+ 1·7	5	1·21	+0·28	23	27
	Holyhead	64	50	60·6	52·9	56·8	+ 0·4	6	1·69	+0·80	*	*
8. ENGLAND, S.W.	Pembroke	62	51	60·9	55·1	58·0	+ 3·9	5	1·20	+0·18	23	27
	Arlington (N. Devon)	65	48	62·4	51·9	57·2	+ 1·9	5	2·07	?	*	*
	Cullompton ℳ	71	45	66·4	53·6	60·0	+ 3·4	6	2·00	?	18	21
	Falmouth	64	53	62·0	55·5	58·8	+ 1·7	5	1·77	+1·01	20	24
	Plymouth	69	50	64·2	53·9	59·1	+ 1·7	5	1·67	+0·58	17	20
	Prawle Point	65	48	61·4	52·7	57·1	+ 2·1	4	0·87	?	*	*
9. IRELAND, N.	Londonderry	71	39	64·2	49·4	56·8	+ 3·8	6	1·45	+0·53	*	*
	Mullaghmore	65	50	61·7	52·9	57·3	+ 3·1	4	0·90	?	*	*
	Markree Castle	67	42	62·8	49·8	56·3	+ 1·8	5	1·04	+0·23	14	16
	Brookeborough	66	42	61·0	50·2	55·6	+ 1·4	3	1·57	?	*	*
	Armagh	66	45	61·1	51·7	56·4	+ 2·4	6	1 58	+0·80	18	21
	Donaghadee	68	44	59·9	51·4	55·7	+ 2·5	4	0·97	?	*	*
10. IRELAND, S.	Dublin	67	48	62·8	53·0	57·9	+ 3·5	4	0·65	+0 07	29	34
	Parsonstown	66	45	63·6	50·9	57·3	+ 1·7	3	0·55	−0·33	19	22
	Roche's Point	66	50	63·0	52·7	57·9	+ 2·4	6	2·04	+0·85	*	*
	Valencia	64	49	62·7	53·7	58·2	+ 2·2	6	1·35	+0·07	22	26
	Foynes										*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 39.] WEEK ENDING MONDAY, OCTOBER 1, 1883. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	66	41	57	47	52	2 above.	6	8	1 more.	20	25
	2. ENGLAND, N.E.	66	38	58	49	54	1 above.	6	10	3 more.	17	21
	3. ENGLAND, E.	69	40	61	48	54	0 (average).	7	21	15 more.	32	39
	4. MID. COUNTIES	67	38	58	48	53	0 (average).	5	15	7 more.	26	33
	5. ENGLAND, S.	69	40	61	50	56	1 above.	6	9	2 more.	35	43
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	66	34	57	43	53	1 above.	5	15	7 more.	26	32
	7. ENGLAND, N.W.	63	38	57	50	54	0 (average).	5	15	4 more.	18	23
	8. ENGLAND, S.W.	66	41	59	50	55	0 (average).	6	15	5 more.	30	37
	9. IRELAND, N.	67	37	57	48	52	0 (average).	6	14	6 more.	22	28
	10. IRELAND, S.	64	38	59	49	54	1 below.	5	12	2 more.	31	38

General Remarks.

Weather, though fine and bright in most places at intervals, has been generally cloudy or dull and very rainy. At the north-western stations on the 28th, and in the S.E. on the 29th, the rainfall was exceptionally heavy; on the former day as much as 2·84 ins. was measured at Douglas, Isle of Man, and on the latter 2·35 ins. at Hillington.

Temperature has been slightly above the mean in Scotland and the S. and N.E. of England, but a little below it in the S. of Ireland, and about equal to its normal value elsewhere. The maxima, which were registered on the 25th or 26th, varied from 63° in "England, N.W." and 64° in "Ireland, S.", to 69° in "England, E." and "England, S." The minima were generally recorded either on September 30th or October 1st, and ranged from 34° in "Scotland, W." to 41° in "Scotland, E." and "England, S.W."

Rainfall has been more than the mean in all districts, the excess in "England, E." being very considerable.

Bright sunshine shows an increase in duration in all places, the percentages varying from 21 in "England, N.E." to 43 in "England, S."

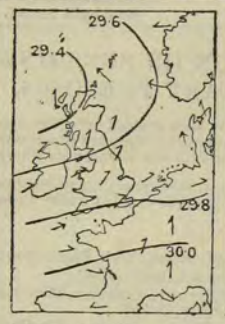
Depressions observed.—Barometric pressure over our Islands and their neighbourhood has again been in a disturbed and changeable condition. Several depressions have reached our coasts from the Atlantic and generally travelled north-eastwards or eastwards. The deepest and most important of these appeared over Ireland on the 26th, and, after moving quickly to the N.E. of Scotland, travelled very slowly eastwards to the S. of Norway. During its passage over our Islands, the wind increased to a gale on all our coasts,—from the south-westward in most parts of England and Ireland, and from S.E. in the E. and N. of Scotland. In Ireland and the N.W. of England the south-westerly gale was of unusual violence. As the depression passed away the wind veered to the north-westward and northward, and on the 30th, in the rear of an area of low pressure which had passed across England on the previous day, a strong gale was experienced on the E. coast of England.

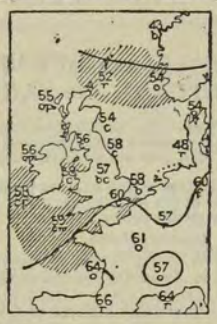
R 9055. 100 & 470.—10/83. Wt. 32. E. & S.

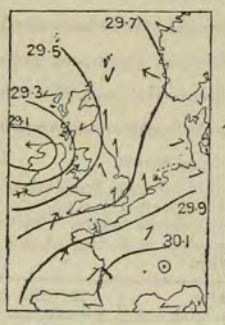
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending October 1, 1883.

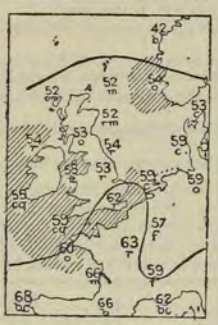
Synoptic Weather Charts.—8 a.m.

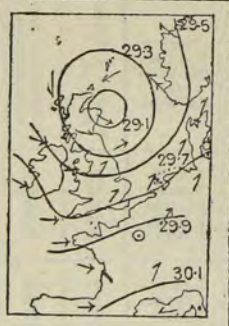
BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

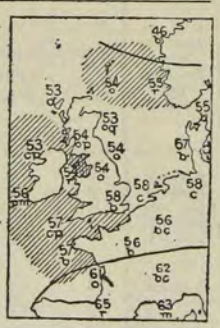


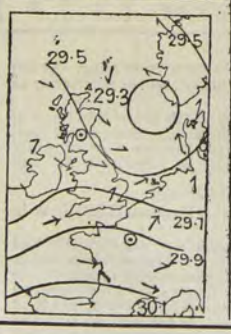












Weather during the 24 hours succeeding the date of the Charts.

Tuesday, September 25.

Weather cloudy and showery in Ireland and the W. of Scotland as well as in France, but fair at most of our eastern stations. Showery weather extending eastwards later.

Temperature little changed; readings ranging from 60° in the S.E. of England to 52° in the Shetlands. Highest maxima 69° at Cambridge, 68° in London, and 67° at Loughborough.

Wind moderate or fresh from S.W. or W. in our Islands and France, but strong south-easterly on the eastern shores of the North Sea. Subsequently backing to S. in S.W., and increasing considerably.

Sea rough on our S.W. coasts, as well as at Sumburgh Head.

Barometer rising at all but the extreme northern stations, and depression of previous day passing away to northward of Scotland. New fall occurring in S.W. later.

Wednesday, September 26.

Weather fair in the S. of France and N. of Scandinavia, dull and rainy elsewhere. Improvement taking place in S. later.

Temperature fallen W. and N.; readings ranging from 64° at Jersey to 51° at Nairn. Highest maxima 69° in London and 68° at Cambridge.

Wind blowing a severe gale from S.W. in the S. of Ireland, and a fresh gale in the S.W. of England. Strong southerly winds prevailing in S.E. and moderate south-easterly winds in N. Gale subsequently blowing on almost all coasts, its severity being greatest over Ireland and the N.W. of England.

Sea rough W. and S.

Barometer falling fast W., and very deep depression lying over W. of Ireland. Disturbance moving north-eastwards later, and recovery of pressure taking place in W. and S.

Thursday, September 27.

Weather fine in the S.E., cloudy and showery elsewhere. Showers falling generally later.

Temperature fallen at our southern and the French stations; readings ranging from 58° in the S.E. of England to 52° at Parsonstown.

Wind moderate or fresh north-westerly or westerly in N. and W., but strong south-westerly in S. and E. Moderating in S.E. later.

Sea rough on our western and southern coasts, as well as at Sumburgh Head.

Barometer rising W. and N., falling elsewhere. Depression of previous day now lying off the N.E. of Scotland, but subsidiary disturbance passing across Wales and Central England. Rise becoming general later.

Friday, September 28.

Weather fair in the E. and S.E., but dull in the N. and rainy in the S.W. Rain area subsequently extending over whole of United Kingdom.

Temperature fallen slightly; readings ranging from 58° at Valencia and Scilly to 50° at Stornoway.

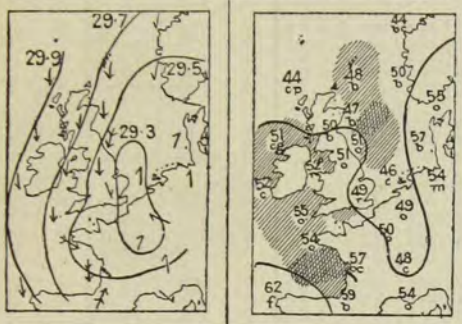
Wind moderate south-westerly in S.W., but westerly or north-westerly in N. and E., and southerly on eastern shores of North Sea. Subsequently veering to W.N.W. in S.W. and increasing to strong breeze.

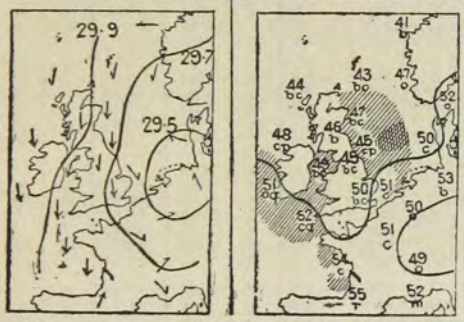
Sea rough on the more exposed parts of our western and southern coasts.

Barometer rising over Great Britain, falling elsewhere. Wednesday's depression now shown off the S. of Norway, but another subsidiary disturbance appearing over Ireland. General fall taking place later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Saturday, September 29.

Weather fair in S.E., but rainy in N. of England, and showery at several of our western stations. Very heavy rain falling over eastern and central England later, largest amount being 2·4 ins. at Hillington.

Temperature fallen generally; readings ranging from 58 at Valencia to 48° at Oxford. Maximum at Loughborough only 51°.

Wind fresh north-easterly in N., but strong to a gale from W. in S. and S.E. Veering to N. in W. later.

Sea rough on all our western and southern coasts and at Sumburgh Head.

Barometer rising in Scotland, falling elsewhere. Old depression still lying off the S. of Norway, but two new ones shown in neighbourhood of our Islands:—one off the E. of England and the other over the Irish Sea.

Sunday, September 30.

Weather dull and rainy in S.E., fair in W. and N. Some improvement taking place in S.E. later.

Temperature fallen a little, readings ranging from 55° at Scilly to 44° at Stornoway. Maxima below 55° in most places and as low as 51° at Loughborough.

Wind light southerly over the Netherlands and N. Germany, strong northerly elsewhere, with gale on E. coast of England.

Sea rough on nearly all exposed parts of our coasts.

Barometer rising at all but the French stations. Depressions shown off E. and N.W. of England on previous day now lying outside our S.E. coasts, and apparently filling up. Rise continuing all day.

Monday, October 1.

Weather fair generally, but with showers locally.

Temperature fallen; readings ranging from 52° at Scilly to 43° at Sumburgh Head and 41° at Parsonstown. Maxima again below 55° at nearly all stations.

Wind strong northerly at all but the Danish stations, where light easterly.

Sea rough on all the more exposed parts of our coasts.

Barometer rising everywhere. Area of low pressure still lying over the Netherlands and N. Germany, but filling up gradually. Rise continuing all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	56	40	53·3	46·0	49·7	+0·2	5	0·36	−0·18	•	•
	Stornoway	58	40	53·3	47·1	50·2	+0·9	5	0·54	−0·56	16	20
	Wick	65	41	54·7	47·0	50·9	+1·2	6	0·99	+0·29	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	65	45	58·6	52·7	55·7	−1·6	6	0·87	−0·24	•	•
	Jersey (Noirmont)	64	48	59·7	53·3	56·5	−1·3	7	1·71	−0·95	24	29

† The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	65	44	54·9	47·9	51·4	+ 0·9	6	0·62	−0·06	*	*
	Aberdeen	65	41	56·3	45·6	51·0	+ 0·6	6	1·10	+0·30	20	25
	Leith	66	42	60·6	48·4	54·5	+ 2·9	6	0·71	+0·12	*	*
2. ENGLAND, N.E.	Alnwick Castle	62	38	56·4	46·3	51·4	+ 0·3	6	0·83	?	*	*
	Shields	64	42	58·0	48·7	53·4	+ 1·9	5	0·50	−0·12	*	*
	Durham	64	40	57·5	47·9	52·7	+ 0·5	5	0·80	+0·17	16	20
	Scarborough ℳ	66	41	59·0	49·8	54·4	+ 1·5	6	1·16	+0·46	*	*
	York	66	42	59·4	50·0	54·7	+ 1·7	5	1·09	+0·39	18	22
	Spurn Head	65	48	58·3	52·3	55·3	+ 2·3	6	1·56	?	*	*
3. ENGLAND, E.	Hillington ℳ	67	40	60·1	47·4	53·8	+ 0·8	7	3·87	+3·27	22	27
	Yarmouth	67	40	60·1	49·1	54·6	+ 0·1	7	0·93	+0·18	*	*
	Geldeston	69	41	61·6	47·9	54·8	+ 0·1	7	1·25	+0·70	39	48
	Cambridge	69	45	61·6	48·4	55·0	− 0·3	7	2·62	+2·07	34	42
	Rothamsted	67	45	59·5	47·5	53·5	− 1·0	7	1·99	+1·29	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	65	38	58·3	47·7	53·0	− 0·6	5	1·93	+1·31	*	*
	Loughborough	67	42	58·6	50·0	54·3	+ 0·8	6	1·36	+0·64	*	*
	Leicester	67	43	59·8	49·3	54·6	+ 1·3	6	1·59	+0·93	24	30
	Birmingham (Oscott)										*	*
	Cheadle ℳ	64	38	56·8	47·1	52·0	− 0·1	5	1·71	?	*	*
	Churchstoke ℳ	65	40	57·2	47·5	52·4	− 0·6	4	1·57	?	29	36
	Hereford ℳ	67	43	59·6	48·7	54·2	+ 0·6	4	0·63	−0·17	*	*
	Cirencester	63	40	56·7	46·0	51·4	− 3·5	6	0·97	+0·11	25	31
	Oxford	65	45	58·6	49·7	54·2	+ 0·1	5	1·81	+1·11	27	33
5. ENGLAND, S.	London†	69	45	61·6	50·4	56·0	+ 0·4	7	1·00	+0·35	36	44
	Marlborough ℳ	67	40	59·2	47·1	53·2	− 0·2	5	0·96	+0·03	33	41
	Strathfield Turgiss ℳ	68	44	61·6	48·7	55·2	+ 0·3	4	1·31	+0·61	*	*
	Dover	65	47	59·9	52·6	56·3	+ 1·1	7	0·71	−0·01	*	*
	Hastings (St. Leonard's)	65	43	60·5	50·5	55·5	0·0	7	1·01	+0·27	36	44
	Southampton	68	44	61·2	50·4	55·8	+ 0·9	4	0·94	?	34	42
	Hurst Castle	65	45	60·6	51·9	56·3	+ 0·9	5	0·45	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	60	34	56·2	45·4	50·8	− 1·0	6	0·74	?	*	*
	Glasgow	61	39	56·7	47·9	52·3	+ 0·8	4	0·68	−0·42	35	43
	Ardrossan	60	41	56·9	48·3	52·6	+ 1·1	3	0·60	−0·44	*	*
	Silloth (Cumberland)	63	39	57·5	49·2	53·4	+ 0·4	5	1·48	+0·53	17	21
	Douglas (Isle of Man)	66	41	58·9	48·7	53·8	+ 1·9	6	3·85	+3·05	27	33
7. ENGLAND, N.W.	Barrow-in-Furness	61	42	56·9	49·9	53·4	0·0	5	1·00	?	*	*
	Stonyhurst	62	40	56·9	48·2	52·6	+ 0·4	4	2·83	+1·42	22	27
	Blackpool ℳ	63	43	57·5	50·5	54·0	+ 0·5	5	1·86	+0·81	18	22
	Manchester	63	38	57·1	47·6	52·4	− 0·6	5	1·80	+0·75	*	*
	Liverpool Obsy (Bidston)	63	44	57·0	50·6	53·8	− 0·7	5	1·30	+0·21	*	*
	Llandudno ℳ	63	47	57·5	51·5	54·5	− 0·9	6	0·85	−0·12	15	19
	Holyhead	62	48	56·9	50·9	53·9	− 1·3	6	0·83	−0·12	*	*
8. ENGLAND, S.W.	Pembroke	60	45	57·0	51·3	54·2	+ 0·3	7	1·41	+0·38	28	35
	Arlington (N. Devon)	62	44	56·6	48·6	52·6	− 1·4	6	2·44	?	*	*
	Cullompton ℳ	66	43	59·9	48·4	54·2	− 0·9	6	1·44	?	29	36
	Falmouth	64	47	58·5	52·0	55·3	+ 0·7	7	1·63	+0·83	?	?
	Plymouth	66	41	60·2	51·3	55·8	− 0·2	6	1·03	−0·02	32	39
	Prawle Point	62	42	59·4	50·1	54·8	+ 0·8	5	0·84	?	*	*
9. IRELAND, N.	Londonderry	61	41	57·1	47·2	52·2	+ 0·3	6	1·39	+0·43	*	*
	Mullaghmore	61	45	56·4	50·7	53·6	+ 1·0	7	1·11	?	*	*
	Markree Castle	67	40	58·0	46·6	52·3	− 0·6	7	1·33	?	24	30
	Brookeborough	63	37	56·0	46·2	51·1	− 0·4	5	1·47	?	*	*
	Armagh	62	40	55·6	47·4	51·5	− 1·1	5	1·30	+0·50	20	25
	Poyntzpass	64	47	57·6	49·7	53·7	+ 1·5	5	2·11	?	*	*
10. IRELAND, S.	Dublin	64	42	57·9	49·0	53·5	+ 0·5	3	0·80	+0·20	30	37
	Parsonstown	64	38	57·7	47·3	52·5	− 1·2	5	1·10	+0·23	27	33
	Roche's Point	64	44	60·1	49·1	54·6	+ 0·1	6	0·73	−0·46	*	*
	Valencia	62	47	60·1	51·3	55·7	+ 0·5	7	1·37	+0·02	36	44
	Foynes	62	43	57·8	45·8	51·8	− 2·3	5	1·75	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 40.] WEEK ENDING MONDAY, OCTOBER 8, 1883. [*Price 2d.* [*Annual subscription, post paid.* 12*s.* 6*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	74	35	58	42	50	1 above.	3	2	5 less.	44	57
	2. ENGLAND, N.E.	70	35	56	43	50	1 below.	4	8	1 more.	31	39
	3. ENGLAND, E.	66	35	54	42	48	5 below.	5	9	3 more.	19	24
	4. MID. COUNTIES	67	32	55	41	48	4 below.	4	5	2 less.	20	25
	5. ENGLAND, S.	62	34	56	42	49	5 below.	4	7	1 less.	23	29
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	62	34	56	42	49	2 below.	4	4	8 less.	34	43
	7. ENGLAND, N.W.	58	37	54	44	49	3 below.	3	6	6 less.	21	27
	8. ENGLAND, S.W.	63	32	57	44	50	4 below.	4	7	3 less.	30	38
	9. IRELAND, N.	69	33	58	44	51	0 (average).	4	6	4 less.	27	34
	10. IRELAND, S.	66	35	58	45	51	2 below.	3	3	7 less.	25	32

General Remarks.

Weather during this period has been generally cloudy and hazy over England and Ireland, with some rather heavy falls of rain over our north-eastern and eastern counties. In the E. and N. of Scotland, however, the latter part of the week has been characterized by very clear skies and abnormally warm weather.

Temperature has been below the mean in nearly all districts, the deficit in the S. and E. of England being as much as 5°. In "Ireland, N." temperature has been about equal to the mean, but in "Scotland, E.", owing to the high readings of the thermometer during the last few days of the period, the average for the week is a little above its normal value. The maxima were very generally recorded either on the 7th or 8th, and varied from 58° in "England, N.W." and 62° in "England, S." and "Scotland, W.", to 70° in "England, N.E." and 74° in "Scotland, E." In the last-named district the maximum was 2° higher than any recorded during the past summer. The minima, which were registered on different days in various localities, were as low as 32° in "England, S.W." and the "Midland Counties", and between 34° and 37° elsewhere.

Rainfall has been rather more than the mean in the E. and N.E. of England, but less in all other districts.

Bright sunshine percentages show a considerable increase in Scotland and the N. of England, but a decrease in most other parts of the Kingdom. In "Scotland, E." the percentage of possible duration was as high as 57, whence it fell to 43 in "Scotland, W.", to 39 in "England, N.E.", to 25 in the "Midland Counties", and to 24 in "England, E."

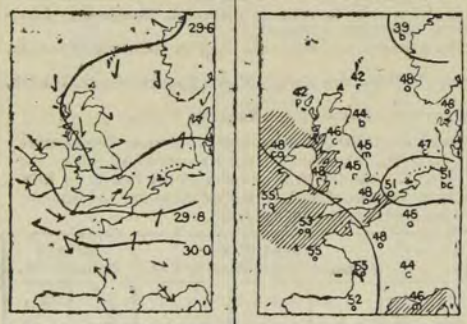
Depressions observed.—During the greater part of this period the barometer has been highest in the western and south-western parts of our area, while some depressions have travelled south-south-eastwards over our Islands and the North Sea. The disturbance whose centre was shown off the Norfolk coast at 8 A.M. on the 4th had increased greatly in depth during the previous night, causing the wind, which till that date had been moderate from the northward or north-westward, to blow a gale from the northward over eastern England. By the morning of the 7th, the condition had undergone a considerable change; a large depression, which subsequently passed eastwards over Scandinavia, being observed approaching the N. of Norway from the westward. The winds, at all except our south-western stations, consequently backed to the westward, and in the N. of Scotland blew strongly.

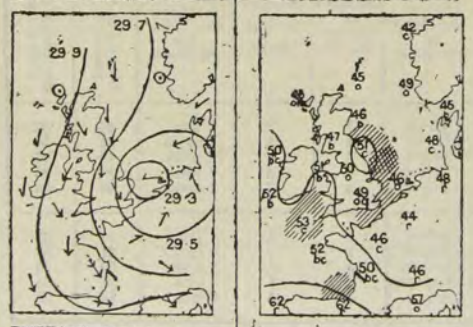
R 9188. 100 & 470.—10/83. Wt. 32. E. & S.

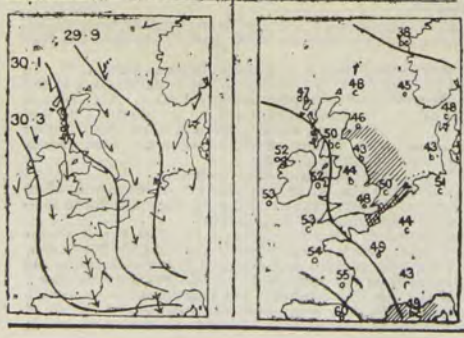
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending October 8, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, October 2.

Weather dull in the extreme W. and N. of our Islands, as well as on the eastern shores of the North Sea; generally fine elsewhere. Showers falling in many places later.

Temperature fallen a little N. and E.; readings ranging from 53° at Scilly to 41° at Leith. Maxima below 55° in most parts of the country.

Wind light south-westerly or westerly in N.; moderate or fresh north-westerly elsewhere. Veering to N.W. in N. later.

Sea rough on our E. coasts, as well as at Holyhead and Scilly.

Barometer falling in N. of Scotland, and also in Sweden; rising elsewhere. Highest pressures found over S. Ireland, and lowest over Denmark and the Baltic. Shallow depression appearing in N. later.

Wednesday, October 3.

Weather fine in N.E. of Scotland, cloudy or overcast elsewhere, with rain in many parts of England and Ireland. Fair weather extending southwards later.

Temperature fallen a little W. and N., risen elsewhere; readings ranging from 55° at Valencia to 40° at Nairn. Maximum at Oxford, Cambridge, and in London, only 49°.

Wind light north-westerly in N., fresh westerly in W. and S., moderate south-westerly in E. Veering to N. in N. and E. later.

Sea rough on some parts of our western and southern coasts, moderate to smooth in the N. and E.

Barometer rising S. of France, falling elsewhere. Highest readings now found over France, with shallow area of low pressure over Scandinavia, the North Sea, and our N.E. coasts. Well defined depression forming over our northern districts later, and afterwards moving south-eastwards.

Thursday, October 4.

Weather fine at all but our south-eastern stations, where unsettled and rainy. Some improvement taking place in S.E. later.

Temperature risen N., fallen S.; readings ranging from 53° at Scilly to 37° at Parsonstown. Maximum in London only 53°.

Wind south-westerly in Belgium and the N.E. of France, and easterly in Denmark, but generally northerly elsewhere; moderate to strong gale blowing in E. of England. Gale extending to S.E. coasts later.

Sea rough E. and S.

Barometer rising at all but our south-eastern and the French stations. The depression of previous day lying between the coasts of Norfolk and Holland in morning, but subsequently moving away south-eastwards.

Friday, October 5.

Weather fair generally, but with showers at Stornoway. Showers falling in all but our south-western districts later, and bright aurora seen in Scotland at night.

Temperature risen W., fallen elsewhere; readings ranging from 53° at Valencia and Scilly to 43° at Shields.

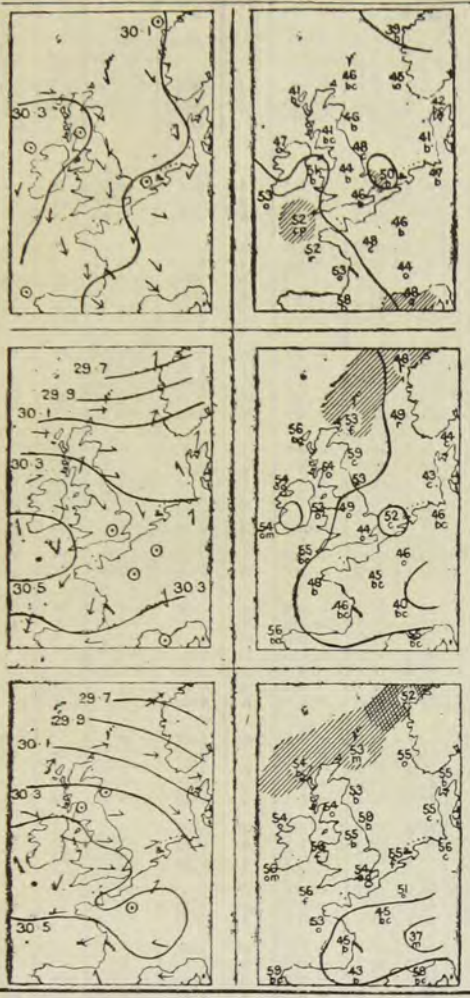
Wind north-westerly or northerly; moderate or fresh in force over our Islands, but strong in France.

Sea rough on our E. and S.E. coasts, slight or smooth elsewhere.

Barometer rising generally. Readings highest off the W. of Ireland and lowest over the Baltic, with small shallow depressions passing in a southerly direction down our E. coasts.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, October 6.

Weather dull and rainy at some of the French stations, fine elsewhere. Fine weather extending to France later.

Temperature fallen a little; readings ranging from 53° at Valencia to 39° at Wick. Maxima rather higher than of late.

Wind westerly in N., but northerly or north-easterly elsewhere; still strong in force over France.

Sea rather rough at Scilly and Yarmouth, slight or smooth elsewhere.

Barometer falling France, rising elsewhere. Area of high pressure lying over Ireland and the greater part of Scotland in morning, and moving further eastwards during latter part of day.

Sunday, October 7.

Weather fine in France and the S.W. of our Islands, cloudy elsewhere, with mist in several places. Sky clearing in Scotland later.

Temperature fallen S., risen elsewhere—rapidly in Scotland; readings ranging from 60° at Wick and 59° at Aberdeen to 41° at Oxford. Thermometer at Aberdeen subsequently rising to 72°—that in London not exceeding 55°.

Wind light northerly in S. and moderate north-easterly in France, but westerly at all the more northern stations. Blowing strongly in N. of Scotland later.

Sea rough at Sumburgh Head, slight or smooth on other parts of our coasts.

Barometer falling Scandinavia and Scotland, rising elsewhere. Anticyclone lying over our S.W. coasts, and very large depression appearing off the N.W. of Norway. Recovery taking place in Scotland later.

Monday, October 8.

Weather fine in the N. and E. as well as at the French stations, cloudy or overcast elsewhere, with mist or fog in many places.

Temperature risen a few degrees at all but the Scotch stations, readings ranging from 59° at Shields to 53° at Sumburgh Head, Dover, and Cambridge. Maximum at Aberdeen as high as 74°.

Wind light and variable in W. and S.W., but westerly at the more northern stations, with strong gales at Bodö and Christiansund.

Sea rough in the extreme north, slight or smooth elsewhere.

Barometer rising except Sweden. Areas of high pressure lying over France and our western and southern districts, but large depression of previous day travelling away in a north-easterly direction to the northward of Sweden.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟫⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	54	37	51·6	40·9	46·3	−2·2	7	0·92	+0·34	*	*
	Stornoway	63	37	54·6	41·1	47·9	−0·1	6	0·76	−0·36	39	51
	Wick	64	34	55·3	37·9	46·6	−1·8	4	0·23	−0·47	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	60	43	56·3	49·0	52·7	−3·6	3	0·45	−0·66	*	*
	Jersey (Noirmont)	58	47	55·9	49·0	52·5	−4·2	4	0·96	+0·16	31	39

† The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	68	36	56·9	42·0	49·5	+ 0·2	4	0·19	−0·44	*	*
	Aberdeen	74	35	59·1	40·9	50·0	+ 1·0	3	0·06	−0·74	44	57
	Leith	67	38	58·6	41·7	50·2	+ 0·2	3	0·29	−0·26	*	*
2. ENGLAND, N.E.	Alnwick Castle	65	38	55·4	44·9	50·2	+ 0·6	4	0·68	?	*	*
	Shields	63	37	55·0	42·1	48·6	− 1·9	5	0·75	+0·14	*	*
	Durham	67	35	56·9	41·0	49·0	− 1·6	4	0·62	−0·06	31	40
	Scarborough ℔	68	42	56·1	45·2	50·7	− 0·6	4	1·08	+0·38	*	*
	York	70	38	57·1	41·6	49·4	− 2·3	4	0·81	+0·11	30	38
	Spurn Head	64	44	54·6	45·6	50·1	− 1·5	4	0·67	?	*	*
3. ENGLAND, E.	Hillington ℔	59	35	53·5	40·8	47·2	− 4·5	5	0·90	+0·32	14	18
	Yarmouth	61	40	53·9	44·6	49·3	− 3·8	5	1·61	+0·89	*	*
	Geldeston	66	38	54·6	42·9	48·8	− 4·5	4	1·00	+0·49	21	27
	Cambridge	60	40	55·7	41·3	48·5	− 5·0	3	0·26	−0·28	21	27
	Rothamsted	61	39	54·1	41·5	47·8	− 4·9	6	0·60	−0·10	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	67	38	56·7	41·4	49·1	− 2·8	3	0·81	+0·17	*	*
	Loughborough	64	36	55·6	40·3	48·0	− 3·7	4	0·57	−0·13	*	*
	Leicester	64	37	55·9	41·2	48·6	− 3·1	5	0·64	−0·01	16	21
	Birmingham (Oscott)	61	39	54·2	40·8	47·5	− 3·6	4	0·53	−0·27	*	*
	Cheadle ℔	59	36	52·8	39·9	46·4	− 4·2	4	0·73	?	*	*
	Churchstoke ℔	66	33	55·7	39·8	47·8	− 3·7	3	0·37	?	22	28
	Hereford ℔	60	32	55·9	41·2	48·6	− 3·4	4	0·25	−0·55	*	*
	Cirencester	60	37	54·0	40·3	47·2	− 5·1	3	0·52	−0·31	18	23
	Oxford	60	39	54·6	41·1	47·9	− 4·6	3	0·42	−0·28	22	28
5. ENGLAND, S.	London†	62	41	55·3	42·3	48·8	− 5·2	4	0·27	−0·48	19	24
	Marlborough ℔	59	34	54·5	38·8	46·7	− 5·3	4	0·71	−0·19	20	26
	Strathfield Turgiss ℔	60	35	55·9	39·6	47·8	− 5·5	3	0·46	−0·24	*	*
	Dover	58	43	54·4	45·4	49·9	− 4·0	3	0·92	+0·18	*	*
	Hastings (St. Leonard's)	60	39	55·3	43·6	49·5	− 4·4	4	1·12	+0·36	24	31
	Southampton	58	39	56·7	42·1	49·4	− 4·1	4	0·71	?	28	36
	Hurst Castle	59	40	56·3	42·4	49·4	− 4·6	3	0·41	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	61	35	55·1	41·7	48·4	− 2·2	6	1·07	?	*	*
	Glasgow	62	38	54·7	41·9	48·3	− 2·6	4	0·18	−0·88	35	45
	Ardrossan	61	38	56·6	42·4	49·5	− 0·7	3	0·18	−0·87	*	*
	Silloth (Cumberland)	59	34	56·7	40·4	48·6	− 2·9	1	0·12	−0·83	32	41
	Douglas (Isle of Man)	61	37	56·1	40·9	48·5	− 2·5	4	0·47	−0·41	34	44
7. ENGLAND, N.W.	Barrow-in-Furness	58	41	55·7	44·3	50·0	− 2·1	3	0·55	?	*	*
	Stonyhurst	55	40	53·0	45·0	49·0	− 1·7	4	0·39	−1·03	22	28
	Blackpool ℔	56	37	54·2	43·2	48·7	− 3·7	3	0·44	−0·66	22	28
	Manchester	57	37	53·8	40·4	47·1	− 4·4	3	0·73	−0·35	*	*
	Liverpool Obs? (Bidston)	57	42	54·0	44·4	49·2	− 4·0	2	1·00	−0·10	*	*
	Llandudno ℔	57	45	54·2	47·8	51·0	− 3·0	4	0·54	−0·46	19	24
	Holyhead	58	45.	54·6	46·7	50·7	− 3·2	4	0·44	−0·62	*	*
8. ENGLAND, S.W.	Pembroke	59	45	55·4	48·0	51·7	− 1·8	4	0·54	−0·50	29	37
	Arlington (N. Devon)	63	36	55·3	43·1	49·2	− 3·8	3	1·45	?	*	*
	Cullompton ℔	60	32	56·5	41·6	49·1	− 4·6	5	0·55	?	27	35
	Falmouth	58	46	55·9	47·9	51·9	− 3·1	3	0·79	−0·10	33	42
	Plymouth	61	38	57·7	41·8	49·8	− 4·9	4	0·50	−0·51	31	39
	Prawle Point	63	41	58·7	42·9	50·8	− 2·5	4	0·45	?	*	*
9. IRELAND, N.	Londonderry	68	40	59·4	44·0	51·7	+ 1·2	5	0·55	−0·47	*	*
	Mullaghmore	67	44	58·1	47·4	52·8	+ 1·8	5	0·56	?	*	*
	Markree Castle	69	35	58·8	41·3	50·1	− 0·9	6	1·06	?	27	35
	Brookeborough	66	33	57·3	39·8	48·6	− 2·1	2	0·42	?	*	*
	Armagh	62	36	55·6	43·6	49·6	− 1·4	4	0·30	−0·50	25	33
	Donaghadee	64	42	56·3	44·9	50·6	− 0·9	3	0·47	?	*	*
10. IRELAND, S.	Dublin	64	37	56·2	43·7	50·0	− 1·9	3	0·41	−0·27	27	35
	Parsonstown	66	35	57·7	41·1	49·4	− 2·4	3	0·41	−0·44	28	36
	Roche's Point	63	44	59·1	45·7	52·4	− 0·9	1	0·18	−0·93	*	*
	Valencia	63	45	58·9	48·9	53·9	− 0·4	3	0·56	−0·90	20	26
	Foynes	64	42	57·0	45·2	51·1	− 1·4	4	0·11	?	*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 41.] WEEK ENDING MONDAY, OCTOBER 15, 1883. [*Price 2d.*
[*Annual subscription post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	67	30	56	42	49	1 above.	4	7	1 more.	18	25
	2. ENGLAND, N.E.	68	30	56	45	51	2 above.	4	5	1 less.	16	21
	3. ENGLAND, E.	66	38	59	48	53	2 above.	4	6	0 (average).	16	21
	4. MID. COUNTIES	64	35	58	45	52	2 above.	4	10	3 more.	19	25
	5. ENGLAND, S.	65	40	60	47	54	2 above.	2	10	3 more.	24	32
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	61	34	56	45	51	1 above.	5	15	1 more.	15	20
	7. ENGLAND, N.W.	61	36	56	48	52	1 above.	5	7	5 less.	12	16
	8. ENGLAND, S.W.	63	38	58	47	53	0 (average).	4	13	3 more.	21	28
	9. IRELAND, N.	64	31	56	44	50	0 (average).	6	13	4 more.	9	12
	10. IRELAND, S.	63	33	58	47	52	1 above.	5	13	3 more.	18	24

General Remarks.

Weather has been cloudy or dull generally. During the earlier days of the period fog was rather prevalent over England, but as the week progressed, squalls and heavy rains were experienced in all parts of our Islands.

Temperature has been about equal to the mean in "England, S.W." and "Ireland, N.", but a little above it in all other districts. The maxima, which were registered on the 9th in Scotland and on the 14th in England, varied from 68° in "England, N.E." and 67° in "Scotland, E.", to 61° in "England, N.W." and "Scotland, W." The minima were generally recorded on the 12th or 13th, and ranged from 40° in "England, S." and 38° in "England, E." and "England, S.W.", to 30° in "Scotland, E." and "England, N.E."

Rainfall has been less than the mean over the N. of England and about equal to its normal amount in "England, E.", but more in all other districts.

Bright sunshine percentages, which show a considerable decrease in nearly all places, ranged from 12 in "Ireland, N." to 32 in "England, S."

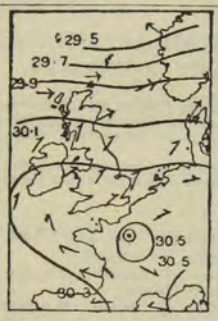
Depressions observed.—During the first few days of this period, barometric pressure over our Islands was uniform and comparatively high, while some depressions were travelling in an easterly direction far to the northward. By 8 A.M. on the 13th, however, the barometer had fallen very briskly in Ireland and Scotland, while it had risen quickly, and was highest, in Sweden. From this date until the close of the period rather deep depressions skirted our western and northern coasts, some subsidiary disturbances at the same time passing across England. The wind, which was at first light and very variable, subsequently blew from the southward or south-westward in all districts, reaching the force of a gale in some parts of Ireland and Scotland on the 13th, and a fresh to whole gale on nearly all our coasts during the 15th.

R 9291. 100 & 470.—10/83. Wt. 32. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending October 15, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, October 9.

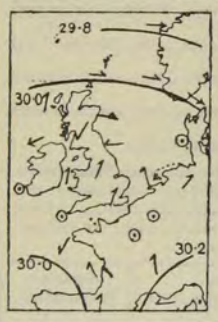
Weather fine at our southern stations and also in the E. of Scotland, cloudy or overcast elsewhere, with drizzling rain over central England. Rain falling in Ireland later.

Temperature risen N.; readings ranging from 61° at Aberdeen to 53° at Wick and 52° at Hurst Castle. Highest maxima 67° at Aberdeen and 64° at Shields.

Wind moderate easterly or south-easterly in the W. of France, but westerly at our more northern stations, and light variable over the Channel and S. of England.

Sea rough in the extreme N., moderate to smooth elsewhere.

Barometer falling generally. Large area of high pressure lying over France and the S. of England, with some extensive depressions passing along in an easterly direction far to the northward of our Islands. Rise taking place in N. later.



Wednesday, October 10.

Weather fine in Sweden, the N. and E. of Scotland, and the S.W. of England; cloudy elsewhere, with fog in many parts of England and rain in Ireland. Rain falling at all western stations later.

Temperature fallen generally—very quickly in Scotland; readings ranging from 59° at Roches Point to 36° at Nairn. Maximum at Aberdeen 15° lower than on Tuesday.

Wind south-easterly in W. of France, and westerly at our extreme northern stations; light and variable elsewhere.

Sea rather rough at Sumburgh Head, nearly smooth on other parts of our coasts.

Barometer rising Scandinavia, but falling over our Islands and France. Highest pressures over S. of France, and lowest in N. of Sweden; readings over the United Kingdom very uniform.

Thursday, October 11.

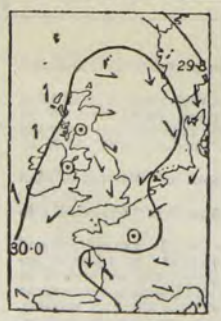
Weather fine in the W. and N., cloudy or overcast elsewhere, with thick fog at many of the English stations. Fine weather becoming general later.

Temperature fallen most places; readings ranging from 55° at Dover to 39° at Aberdeen.

Wind moderate northerly in W., but light and variable in E. and S. Northerly winds subsequently extending to all coasts.

Sea moderate or smooth.

Barometer falling generally. Lowest pressures still found in extreme N., with long area of relatively low readings extending over Great Britain and the W. of France. Rise taking place later in all districts.



Friday, October 12.

Weather fair generally, but with fog or mist in many places. Rain falling in extreme W. later.

Temperature fallen several degrees in W. and N.; readings ranging from 54° at Scilly and Jersey to 33° at Nairn and Aberdeen. Brisk rise subsequently taking place in Ireland and Scotland.

Wind north-westerly in Scandinavia and north-easterly in S. of England, but southerly on W. coasts of Ireland and Scotland, and light variable elsewhere. Southerly gale in Ireland at night.

Sea slight or smooth.

Barometer falling W. of Ireland, rising elsewhere. Large area of relatively high readings lying over Great Britain and the N. of France with depression to northward of Scandinavia. New depression skirting W. of Ireland in evening and barometer falling at all western and northern stations.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, October 13.

Weather fair at our south-eastern, southern, and the Continental stations; cloudy or overcast elsewhere, with rain in Ireland and the W. of Scotland. Rain in E. of Scotland later.

Temperature risen fast W. and N.; readings ranging from 57° at Valencia to 44° at Loughborough.

Wind moderate south-easterly in S.E., but strong southerly elsewhere, with fresh gale in Scotland.

Sea rough in the W. and extreme N.

Barometer falling briskly W. and N., rising elsewhere—quickly in Sweden. Highest pressures now found over Baltic, and large depression moving in a northerly direction outside our extreme western coasts. Fall extending to all parts of our Islands later.

Sunday, October 14.

Weather still fine at our south-eastern and most of the French stations, but dull and rainy in the W. and N. Rain extending to S.E. later, and lightning occurring at Roche's Point.

Temperature fallen extreme W., risen elsewhere; readings ranging from 58° at Leith, Scilly, and Hurst Castle to 49° at Mullaghmore. Highest maxima 64° at Loughborough and in London, and 63° at Cambridge.

Wind light north-westerly in W. of Ireland, strong southerly elsewhere. Veering to W. at south-western stations later and moderating.

Sea rough on all but the south-eastern and extreme western coasts.

Barometer falling generally. Readings still highest over the Baltic, and long depression lying over the W. of Scotland and N. of Ireland. Subsidiary disturbances appearing over S.W. of England later, but barometer rising again in W.

Monday, October 15.

Weather fair in most places, but rain falling at Sumburgh Head, Aberdeen, and Valencia. Rain becoming general later in day and thunderstorms occurring in the S. of Ireland.

Temperature fallen generally; readings ranging from 55° at Ardrossan and 54° at Scilly to 40° at Parsonstown.

Wind strong southerly in S. of Ireland, moderate south-westerly elsewhere. Southerly gales commencing in W. later, and gradually extending to all our coasts.

Sea rough in the S.W. and also at Sumburgh Head, slight in the E.

Barometer falling generally. Depression noticed in N.W. on previous day passing away to the northward of Scotland, but fresh and deeper disturbance appearing in W. Readings still highest over the Baltic.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	54	36	51·1	43·3	47·2	−0·2	6	1·88	+1·28	•	•
	Stornoway	54	37	52·3	43·1	47·7	+0·9	7	1·25	+0·13	24	33
	Wick	55	32	53·1	40·4	46·8	−0·2	3	0·48	−0·22	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	61	49	58·3	51·4	54·9	−0·6	5	0·70	−0·41	•	•
	Jersey (Noirmont)	60	48	58·6	50·4	54·5	−1·0	3	0·81	0·00	38	50

† The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow :

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	59	30	55·7	40·4	48·1	+ 0·2	4	0·41	−0·18	*	*
	Aberdeen	67	30	55·4	40·7	48·1	+ 0·6	4	1·55	+0·79	18	25
	Leith	62	38	57·9	44·3	51·1	+ 2·6	4	0·20	−0·29	*	*
2. ENGLAND, N.E.	Alnwick Castle	59	36	54·0	44·6	49·3	+ 1·1	4	0·87	?	*	*
	Shields	64	36	56·9	43·9	50·4	+ 1·5	4	0·34	−0·26	*	*
	Durham	68	30	57·0	40·2	48·6	− 0·1	2	0·22	−0·47	18	24
	Scarborough ℳ	61	43	57·2	47·9	52·6	+ 3·3	3	0·95	+0·25	*	*
	York	62	32	58·3	44·0	51·2	+ 1·0	4	0·30	−0·40	13	17
	Spurn Head	61	48	56·7	49·9	53·3	+ 3·3	5	0·53	?	*	*
3. ENGLAND, E.	Hillington ℳ	66	45	59·4	48·0	53·7	+ 3·6	3	0·52	−0·02	15	20
	Yarmouth	58	50	56·9	50·9	53·9	+ 2·4	3	0·33	−0·36	*	*
	Geldeston	63	45	58·8	49·8	54·3	+ 2·5	4	0·41	−0·11	16	21
	Cambridge	63	42	59·7	47·3	53·5	+ 1·7	3	0·59	+0·03	16	21
	Rothamsted	63	38	58·4	44·4	51·4	+ 0·6	5	0·88	+0·19	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	64	35	59·0	40·1	49·6	− 0·9	4	0·53	−0·15	*	*
	Loughborough	64	37	58·9	45·7	52·3	+ 2·2	3	0·66	−0·04	*	*
	Leicester	62	41	58·5	48·1	53·3	+ 3·2	6	0·63	+0·03	15	20
	Birmingham (Oscott)	60	43	56·9	47·0	52·0	+ 2·3	5	0·91	+0·12	*	*
	Cheadle ℳ	59	41	56·1	45·9	51·0	+ 1·9	5	0·98	?	*	*
	Churchstoke ℳ	60	37	56·4	45·0	50·7	+ 0·8	4	1·27	?	13	17
	Hereford ℳ	60	41	58·3	45·7	52·0	+ 1·5	4	2·01	+1·22	*	*
	Cirencester	60	38	57·6	44·4	51·0	+ 0·3	2	0·85	+0·06	21	28
	Oxford	62	39	59·4	46·4	52·9	+ 1·9	3	0·86	+0·20	25	33
5. ENGLAND, S.	London†	64	40	61·7	46·7	54·2	+ 1·9	2	0·92	+0·27	15	20
	Marlborough ℳ	62	41	59·8	45·0	52·4	+ 1·8	2	1·47	+0·62	27	36
	Strathfield Turgiss ℳ	62	40	60·4	43·1	51·8	0·0	2	0·72	+0·06	*	*
	Dover	59	48	58·0	50·6	54·3	+ 1·8	4	0·33	−0·42	*	*
	Hastings (St. Leonard's)	63	49	60·3	51·5	55·9	+ 3·7	2	0·95	+0·18	27	36
	Southampton	65	43	61·5	47·1	54·3	+ 2·1	2	1·16	?	28	37
	Hurst Castle	62	43	59·4	47·9	53·7	+ 1·0	3	1·36	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	57	34	54·4	41·2	47·8	− 1·2	6	2·89	?	*	*
	Glasgow	58	38	55·0	46·1	50·6	+ 2·6	5	0·63	−0·36	15	20
	Ardrossan	61	36	57·0	45·4	51·2	+ 2·3	4	1·03	−0·01	*	*
	Silloth (Cumberland)	59	35	56·5	47·2	51·9	+ 2·0	5	1·09	+0·15	16	22
	Douglas (Isle of Man)	57	38	56·1	46·3	51·2	+ 1·0	4	1·33	+0·41	14	19
7. ENGLAND, N.W.	Barrow-in-Furness	57	40	55·6	48·1	51·9	+ 1·1	5	0·60	?	*	*
	Stonyhurst	58	38	56·3	47·4	51·9	+ 2·5	5	0·60	−0·82	12	16
	Blackpool ℳ	59	36	56·5	48·1	52·3	+ 1·0	5	0·52	−0·62	8	11
	Manchester	59	42	56·3	47·5	51·9	+ 1·9	5	0·77	−0·28	*	*
	Liverpool Obsy (Bidston)	61	45	56·9	49·0	53·0	+ 1·5	4	0·52	−0·57	*	*
	Llandudno ℳ	61	43	57·4	48·2	52·8	+ 0·3	4	0·77	−0·27	15	20
	Holyhead	57	45	56·0	49·0	52·5	0·0	4	1·28	+0·13	*	*
8. ENGLAND, S.W.	Pembroke	59	46	56·6	49·9	53·3	+ 0·3	5	1·52	+0·47	10	13
	Arlington (N. Devon)	61	42	57·9	45·7	51·8	+ 0·2	3	1·17	?	*	*
	Cullompton ℳ	63	38	59·0	43·9	51·5	− 0·5	4	1·64	?	17	23
	Falmouth	59	46	57·6	49·6	53·6	− 0·1	3	1·62	+0·67	29	39
	Plymouth	62	41	59·9	46·5	53·2	0·0	3	1·41	+0·46	28	37
	Prawle Point	62	45	59·3	49·0	54·2	+ 1·6	3	0·36	?	*	*
9. IRELAND, N.	Londonderry	64	37	58·7	43·5	51·1	+ 2·0	5	1·04	−0·05	*	*
	Mullaghmore	59	38	55·0	46·0	50·5	+ 1·0	7	1·83	?	*	*
	Markree Castle	62	31	55·1	40·1	47·6	− 1·8	6	1·48	+0·60	9	12
	Brookeborough	61	33	55·3	41·3	48·3	− 0·6	5	1·35	?	*	*
	Armagh	59	38	56·0	44·9	50·5	+ 1·5	7	0·91	+0·10	9	12
	Donaghadee	60	37	56·0	45·6	50·8	+ 0·2	5	1·09	?	*	*
10. IRELAND, S.	Dublin	62	37	57·1	46·8	52·0	+ 1·5	5	0·73	+0·03	17	23
	Parsonstown	60	33	56·3	43·0	49·7	− 0·3	5	0·95	+0·13	12	16
	Roche's Point	63	40	59·6	47·9	53·8	+ 1·5	6	1·35	+0·26	*	*
	Valencia	59	42	57·3	48·3	52·8	− 0·2	6	2·05	+0·47	25	33
	Foynes	61	41	57·4	46·5	52·0	+ 1·2	4	1·47	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 42.] WEEK ENDING MONDAY, OCTOBER 22, 1883. [*Price 2d.*

[*Annual subscription, post paid*, 12*s*. 6*d*.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Rawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	54	30	50	39	45	2 below.	5	7	1 more.	33	48
	2. ENGLAND, N.E.	58	30	51	40	46	2 below.	5	8	1 more.	33	47
	3. ENGLAND, E.	62	34	54	43	48	1 below.	6	5	1 more.	36	50
	4. MID. COUNTIES	59	31	53	41	47	1 below.	6	9	3 more.	36	50
	5. ENGLAND, S.	61	34	56	44	50	1 below.	5	7	0 (average).	28	38
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	55	26	51	41	46	2 below.	7	19	6 more.	21	30
	7. ENGLAND, N.W.	56	27	52	43	47	2 below.	6	24	12 more.	24	33
	8. ENGLAND, S.W.	61	32	55	44	50	2 below.	6	13	3 more.	28	39
	9. IRELAND, N.	58	28	51	39	45	3 below.	7	16	7 more.	22	31
	10. IRELAND, S.	58	34	53	41	47	2 below.	6	13	4 more.	26	36

General Remarks.

Weather, though finer in the eastern and central parts of Great Britain than elsewhere, has been generally cloudy or dull, with frequent, and in some places heavy, falls of rain. In many localities thunderstorms have been experienced.

Temperature has been below the mean in all districts, the deficit ranging from 1° to 3°. The maxima, which were registered during the earlier days of the period, varied from 54° or 55° in Scotland to 62° in "England, E." The minima were generally recorded either on the 21st or 22nd, and were low in all districts, ranging from 26° in "Scotland, W.", 27° in "England, N.W.", and 28° in "Ireland, N.", to 34° in the S. and E. of England and the S. of Ireland.

Rainfall has been about equal to the mean in "England, S.", but more in all other districts, the excess in "England, N.W." and "Ireland, N." being considerable.

Bright sunshine shows an increase in duration in all places, the percentages ranging from 30 in "Scotland, W." and 31 in "Ireland, N." to 50 in "England, E." and the "Midland Counties."

Depressions observed.—During the whole of this period the barometer has been highest and comparatively steady over France, while depressions have travelled—generally in an easterly direction—over our northern coasts and Scandinavia, and some subsidiary disturbances over our southern districts. The wind, after blowing a gale from between S.W. and S. on nearly all our coasts during the 16th, veered to the westward and moderated somewhat in force, though for a time it still blew a strong breeze to a moderate gale. By the 21st, moderate westerly or north-westerly winds were general, but on the following day strong south-westerly winds had again set in in the W. and N.

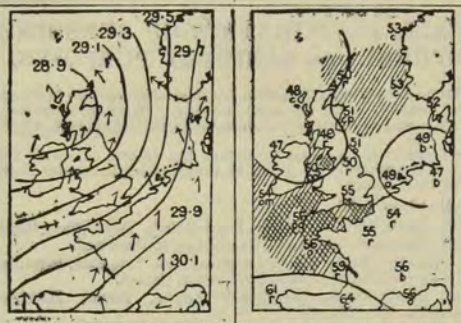
R 9397. 100 & 470.—10/83. Wt. 32. E. & S.

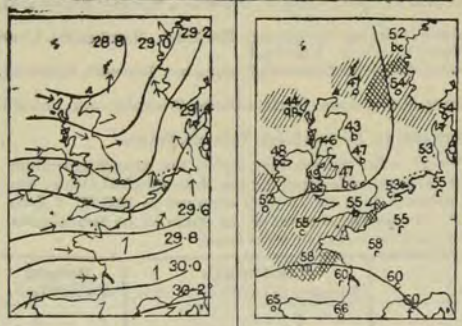
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending October 22, 1883.

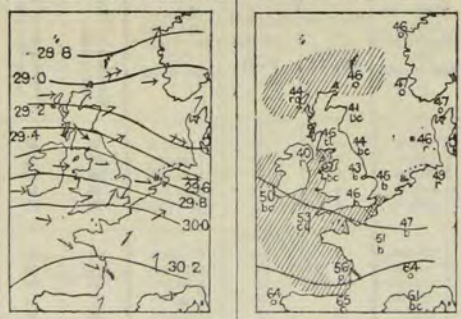
Synoptic Weather Charts.—8 a.m.

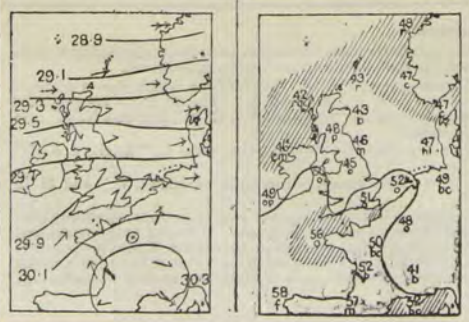
BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Tuesday, October 16.

Weather squally and showery generally. Some improvement taking place in S.E. later. Bright aurora seen at Wick in evening.

Temperature risen slightly in most places; readings ranging from 57° at Hurst Castle, Dover, and Jersey to 43° at Parsonstown.

Wind westerly in Ireland, south-westerly over England and France, and southerly in Scotland as well as on the eastern shores of the North Sea. Strong to a gale in force generally. No important change later.

Sea high in the western half of the Channel, and rough on most other parts of our coasts:

Barometer rising in S. of Ireland, falling elsewhere. Areas of high pressure existing over the Baltic and S.E. of France, with large and rather deep depression lying over the W. of Scotland. Depression moving northwards later, and barometer rising at all but extreme northern stations.

Wednesday, October 17.

Weather fine in almost all places. Rain subsequently extending over our Islands from the westward, and thunderstorms occurring at a few stations.

Temperature fallen in our Islands, but risen on the Continent; readings ranging from 58° at Dover and Jersey to 43° at Nairn, Aberdeen, Donaghadee, and Parsonstown.

Wind westerly in our Islands and France, but southerly on the eastern shores of the North Sea; still strong in force at many western and southern stations. Strong westerly gale in Channel in afternoon and evening.

Sea rough on all but our E. coasts.

Barometer falling at the south-eastern stations, as well as in Scandinavia and Denmark; rising elsewhere. Depression of previous day now lying to northward of Scotland. Well-marked subsidiary disturbance advancing over Ireland and England later, occasioning rather brisk fall of barometer.

Thursday, October 18.

Weather fine at all the more southern stations, but unsettled and rainy in the N., with a thunderstorm at Ardrossan. Rain extending later to all but the S.E. coasts; snow falling in Scotland, and thunderstorms occurring at many of the northern stations.

Temperature fallen slightly; readings ranging from 53° at Scilly and Jersey to 40° at Nairn and Donaghadee.

Wind westerly at all but the Swedish stations, where southerly; strong to a gale in the Channel. Increasing to a moderate gale in the N. later.

Sea rough on the western and southern coasts as well as in the extreme N.

Barometer falling quickly on eastern shores of North Sea, rising elsewhere. Readings highest S. of France, with large area of low pressure lying to the northward of our Islands. Rise becoming general later, and high pressures extending northwards over France.

Friday, October 19.

Weather fine in the E. of Scotland and S. of France, cloudy or overcast elsewhere, with rain at several of our western and southern stations. Rain falling in almost all districts later—heavily in the extreme N.

Temperature rising a little; readings ranging from 53° at Jersey to 42° at Stornoway and Wick.

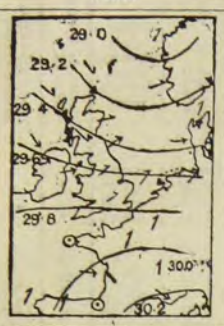
Wind westerly in N., but south-westerly in S.; moderate or fresh in force generally. Veering to W. in S. later, and blowing moderate gale in the Channel.

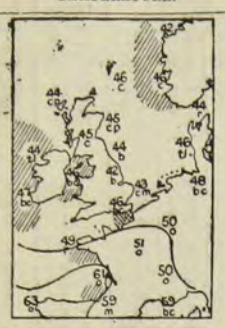
Sea rough on nearly all the more exposed parts of our coasts.

Barometer falling at most of our own and the French stations, but rising in Scandinavia and Denmark. Distribution of pressure very similar to that of Thursday, but small and well-defined depression passing quickly across England in an easterly direction. Rise taking place in S.W. in evening.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	Weather during the 24 hours succeeding the date of the Charts.





Saturday, October 20.

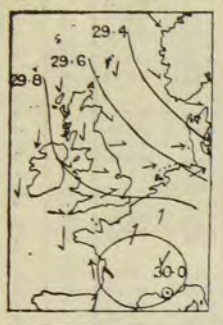
Weather fine in many parts of England and Ireland, but showers falling in the N. of Scotland, and rain in the N.W. of France. Thunderstorms occurring at Cuxhaven and Mullaghmore in morning and at Liverpool in afternoon.

Temperature fallen; readings ranging from 50° at Jersey to 39° at Donaghadee and Parsonstown.

Wind moderate north-westerly in N., but fresh or strong westerly elsewhere.

Sea rough on some parts of our western coasts, moderate or slight in the E. and N.

Barometer falling at all but the extreme northern stations. Distribution of pressure unchanged. Small depression of previous day now found over the S. of Sweden. Large area of low pressure in N. subsequently moving south-eastwards over Scandinavia.



Sunday, October 21.

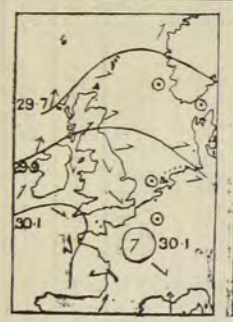
Weather fair in most places, but showery at Wick and Aberdeen. Showers falling in many parts of the country later, and thunder occurring in London.

Temperature fallen a little in the N. and E.; readings ranging from 49° at Holyhead, Pembroke, and Jersey to 39° at Parsonstown. Frost occurring in Scotland and the N. of England at night.

Wind moderate from N. or N.W. in the W. and N., but from W. in the S.E.

Sea moderate or slight generally.

Barometer rising. Areas of relatively high pressure lying off our S.W. coasts and also over France, and large depressions moving in a south-easterly direction across Scandinavia. Rise continuing all day.



Monday, October 22.

Weather dull in the W. of Ireland and E. of France, but generally fine elsewhere, with local fogs over the E. of England. Overcast, rainy weather setting in at all western and northern stations later.

Temperature fallen a little; readings now ranging from 50° at Valencia to 32° at Aberdeen.

Wind moderate south-westerly in W. and N., but light northerly or north-westerly in S. and E. Wind subsequently increasing to gale in Scotland.

Sea moderate or slight.

Barometer falling extreme W. and N., rising elsewhere. Depression appearing in N.W., and fall of barometer subsequently extending to all stations.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➔ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
Scotland, N.	Sumburgh Head	53	36	49·0	41·0	45·0	−1·0	7	1·23	+0·62	*	*
	Stornoway	49	36	48·1	39·3	43·7	−1·9	7	3·33	+2·22	13	19
	Wick	50	32	47·7	37·7	42·7	−2·9	6	1·66	+0·96	*	*
Channel Islands	Scilly (St. Mary's)										*	*
	Jersey (Noirmont)	60	45	56·0	49·4	52·7	−1·1	7	1·64	+0·79	20	27

† The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	53	32	49·0	39·1	44·1	− 2·2	7	0·59	+0·03	*	*
	Aberdeen	53	30	50·6	38·4	44·5	− 1·5	4	0·14	−0·58	33	48
	Leith	54	35	51·3	39·6	45·5	− 1·3	5	1·21	+0·76	*	*
2. ENGLAND, N.E.	Alnwick Castle	53	30	49·3	38·0	43·7	− 3·0	4	0·54	?	*	*
	Shields	57	31	51·4	39·1	45·3	− 2·1	3	0·29	−0·29	*	*
	Durham	56	30	50·9	38·2	44·6	− 2·4	5	1·12	+0·43	35	50
	Scarborough ℳ	56	38	51·9	41·4	46·7	− 0·7	6	1·03	+0·35	*	*
	York	58	32	52·7	40·6	46·7	− 1·8	6	1·03	+0·38	?31	?44
	Spurn Head	56	41	51·4	43·4	47·4	− 1·0	5	0·63	?	*	*
3. ENGLAND, E.	Hillington ℳ	59	36	53·2	41·3	47·3	− 1·3	6	0·64	+0·11	35	49
	Yarmouth	59	39	52·3	43·3	47·8	− 2·0	5	0·18	−0·45	*	*
	Geldeston	60	37	54·6	43·4	49·0	− 1·0	5	0·43	−0·10	36	50
	Cambridge	62	36	54·9	43·4	49·2	− 0·6	6	0·38	−0·09	36	50
	Rothamsted	58	34	53·4	41·3	47·4	− 1·4	6	0·65	+0·01	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	57	33	53·7	40·3	47·0	− 2·0	5	1·49	+0·84	*	*
	Loughborough	58	37	53·6	42·0	47·8	− 0·6	6	0·88	+0·21	*	*
	Leicester	57	37	54·0	41·8	47·9	− 0·5	7	0·67	+0·09	37	52
	Birmingham (Oscott)	58	35	54·2	40·3	47·3	− 0·7	7	0·66	−0·09	*	*
	Cheadle ℳ	55	33	50·7	38·7	44·7	− 2·8	7	1·54	?	*	*
	Churchstoke ℳ	59	31	52·8	39·3	46·1	− 2·2	7	1·24	?	38	53
	Hereford ℳ	59	32	55·3	40·8	48·1	− 0·9	6	0·52	−0·23	*	*
	Cirencester	58	33	52·6	40·6	46·6	− 2·4	7	1·03	+0·28	31	43
	Oxford	59	39	54·1	44·0	49·1	− 0·4	4	0·44	−0·19	37	51
5. ENGLAND, S.	London†	60	38	55·4	44·4	49·9	− 0·6	5	0·55	−0·07	25	35
	Marlborough ℳ	58	34	54·4	40·5	47·5	− 1·3	6	0·67	−0·13	30	42
	Strathfield Turgiss ℳ	61	35	56·3	41·9	49·1	− 1·0	6	0·58	−0·04	*	*
	Dover	59	41	55·1	46·6	50·9	− 0·1	4	0·70	−0·05	*	*
	Hastings (St. Leonard's)	59	39	56·0	45·9	51·0	+ 0·2	5	1·00	+0·25	26	36
	Southampton	61	36	56·7	43·5	50·1	− 0·7	6	0·83	?	29	40
	Hurst Castle	60	37	56·3	46·3	51·3	+ 0·1	6	0·74	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	52	38	49·5	41·3	45·4	− 2·2	7	3·55	?	*	*
	Glasgow	51	32	48·5	39·2	43·9	− 2·1	7	1·80	+0·87	17	24
	Ardrossan	55	34	53·0	41·6	47·3	− 0·2	6	1·49	+0·46	*	*
	Silloth (Cumberland)	55	26	51·2	40·1	45·7	− 2·3	6	1·25	+0·35	22	31
	Douglas (Isle of Man)	55	30	51·4	40·5	46·0	− 3·0	7	1·56	+0·56	25	35
7. ENGLAND, N.W.	Barrow-in-Furness	55	35	52·6	44·1	48·4	− 0·7	6	1·40	?	*	*
	Stonyhurst	54	30	50·6	39·7	45·2	− 2·6	7	4·00	+2·60	19	27
	Blackpool ℳ	56	27	52·2	42·6	47·4	− 2·4	6	1·81	+0·68	27	38
	Manchester	54	29	50·5	39·3	44·9	− 3·7	6	3·01	+1·98	*	*
	Liverpool Obsy (Bidston)	56	38	51·6	44·0	47·8	− 2·1	6	2·77	+1·77	*	*
	Llandudno ℳ	56	39	52·6	44·5	48·6	− 2·3	7	2·21	+1·18	25	35
	Holyhead	56	43	52·3	44·1	48·2	− 2·8	6	1·25	+0·05	*	*
8. ENGLAND, S.W.	Pembroke	57	44	53·6	47·4	50·5	− 1·6	7	0·76	−0·28	30	42
	Arlington (N. Devon)	56	37	53·7	42·1	47·9	− 2·1	7	2·43	?	*	*
	Cullompton ℳ	61	32	56·5	41·6	49·1	− 1·2	6	1·06	?	30	42
	Falmouth	58	43	54·7	46·4	50·6	− 1·7	6	1·58	+0·58	28	39
	Plymouth	59	34	55·8	43·5	49·7	− 2·2	6	1·08	+0·18	22	31
	Prawle Point	59	40	55·9	45·0	50·5	− 1·3	6	0·82	?	*	*
9. IRELAND, N.	Londonderry	58	36	53·3	38·8	46·1	− 1·5	7	2·18	+1·06	*	*
	Mullaghmore	55	42	51·3	43·9	47·6	0·0	7	2·54	?	*	*
	Markree Castle	55	32	50·9	37·0	44·0	− 3·4	7	1·64	?	19	27
	Brookeborough	53	28	49·7	36·1	42·9	− 4·1	6	1·54	?	*	*
	Armagh	54	36	49·7	38·7	44·2	− 3·1	7	1·17	+0·37	25	35
	Donaghadee	54	34	50·4	38·7	44·6	− 3·3	7	0·58	?	*	*
10. IRELAND, S.	Dublin	56	35	51·3	40·2	45·8	− 3·2	5	0·46	−0·24	32	45
	Parsonstown	56	34	50·7	38·1	44·4	− 3·5	6	1·73	+0·92	22	31
	Roche's Point	58	38	54·9	42·7	48·8	− 2·2	6	1·34	+0·28	*	*
	Valencia	58	40	55·6	43·4	49·5	− 2·3	7	1·15	−0·45	23	32
	Foynes	58	39	53·1	42·4	47·8	− 1·0	7	1·59	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 43.] WEEK ENDING MONDAY, OCTOBER 29, 1883. [*Price 2d.*

[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. †Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	60	31	54	39	46	1 above.	3	4	2 less.	26	40
	2. ENGLAND, N.E.	59	33	55	43	49	3 above.	2	1	5 less.	17	25
	3. ENGLAND, E.	64	35	59	45	52	5 above.	3	2	3 less.	20	28
	4. MID. COUNTIES	64	37	58	45	51	5 above.	4	2	4 less.	12	17
	5. ENGLAND, S.	63	36	58	47	53	4 above.	3	1	6 less.	11	16
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	60	36	54	43	49	3 above.	5	11	0 (average).	23	34
	7. ENGLAND, N.W.	61	35	55	45	50	2 above.	3	7	4 less.	17	25
	8. ENGLAND, S.W.	61	37	57	49	53	3 above.	4	4	6 less.	11	15
	9. IRELAND, N.	59	35	55	43	49	3 above.	4	9	0 (average).	17	25
	10. IRELAND, S.	61	35	57	45	51	3 above.	5	5	5 less.	19	28

General Remarks.

Weather has been generally dull or cloudy in all parts of the Kingdom, though in most districts the amount of rainfall has been inconsiderable. During the last few days a good deal of fog or mist was experienced.

Temperature has been above the mean in all districts, the excess varying from 1° in "Scotland, E." to 4° in "England, S.", and to 5° over eastern and central England. The maxima, which were registered at the majority of our stations on the 27th, ranged from 59° over the N.E. of England and N. of Ireland, to 64° in "England, E." and the "Midland Counties." The minima were generally recorded on the 23rd, when the thermometer fell to 31° in "Scotland, E.", to 33° in "England, N.E.", and to between 35° and 37° elsewhere.

Rainfall has been about equal to the mean in "Scotland, W." and "Ireland, N.", but in all other districts a decided deficit is reported.

Bright sunshine has been much less prevalent than during last week in nearly all places the percentages of possible duration varying from 40 in "Scotland, E." and 34 in "Scotland, W.", to 15, 16, and 17 over central, southern, and south-western England.

Depressions observed.—During the first part of this period the barometer was highest and comparatively uniform over France, while disturbances passed in an easterly direction over our Islands and Scandinavia. Of these the deepest and most important was that which travelled very quickly to the neighbourhood of the Shetlands during the night of the 24th, causing the wind, which had previously been generally moderate or fresh from the westward, to blow strongly on all our coasts, and in the N. of Scotland to increase to a violent gale from the north-westward. During the latter part of the week a large anticyclone was gradually formed over Denmark and the S. of Scandinavia, and pressure in our Islands became very uniform, with light winds—at first between S. and W., but finally more variable.

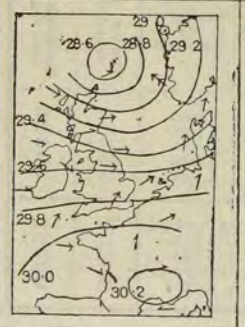
R 9499. 100 & 470.—11/83. Wt. 32. E. & S.

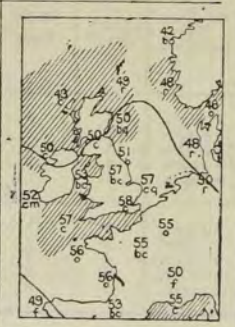
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending October 29, 1883.

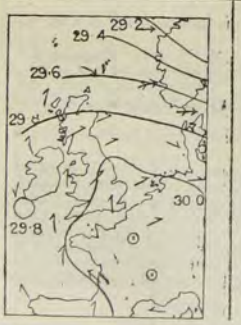
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, October 23.

Weather fine in the E. of Scotland, but cloudy and unsettled elsewhere, with rain in many places. Improvement taking place in E. of England later.

Temperature risen several degrees: readings ranging from 54° at Pembroke to 39° at Stornoway.

Wind north-westerly in W., south-westerly in E., and southerly on eastern shores of North Sea; strong in force on Channel coasts, but generally moderate or fresh elsewhere.

Sea rough on our western and southern coasts as well as at Sumburgh Head.

Barometer falling generally. Highest pressures found over Spain and the S. of France and lowest off our northern coasts. Shallow subsidiary depressions passing across our Islands from the westward. Rise taking place in all parts of the Kingdom later.

Wednesday, October 24.

Weather fine in the E. and N., but dull and rainy in the S.W. Rain extending to all districts later, and lightning occurring at Wick at night.

Temperature fallen a little; readings ranging from 56° at Valencia and Scilly to 36° at Aberdeen. General rise taking place later.

Wind moderate westerly or south-westerly on most coasts, but strong southerly in Sweden. Westerly winds in Channel increasing later and strong southerly winds blowing in extreme N. of Scotland.

Sea rough in the S.W., moderate or smooth elsewhere.

Barometer falling Scandinavia and Denmark, rising our Islands and France. Fall subsequently taking place over our Islands generally, and deep depression approaching the N. of Scotland at night.

Thursday, October 25.

Weather generally fair in our Islands, but rainy on eastern shores of North Sea. Showers falling on our N.W. coasts later.

Temperature risen several degrees; readings ranging from 58° in London to 43° at Stornoway. Highest maxima 62° at Yarmouth and 61° at Loughborough and in London.

Wind moderate westerly in Ireland, strong south-westerly on our eastern and southern coasts and fresh southerly in Denmark. Severe gale from N.W. in N. of Scotland, and strong gale from S.E. in S. of Norway. Wind in Scotland moderating later.

Sea rough generally, and very high at Wick.

Barometer rising in extreme W. and N.W., falling elsewhere. Deep depression lying a little to the northward of the Shetlands. Disturbance moving away eastwards later and barometer rising in all parts of our Islands.

Friday, October 26.

Weather fine in Scotland and the S. of France, cloudy elsewhere, with rain at Roche's Point. Rain falling at all western and northern stations later.

Temperature fallen generally; reading ranging from 56° in the S.E. of England to 38° at Aberdeen.

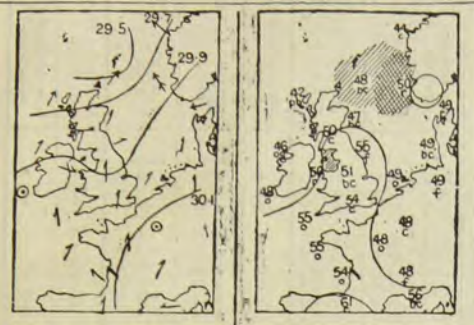
Wind moderate westerly in N. of Scotland and strong to a gale from the same quarter over the southern part of Scandinavia; light south-westerly or southerly at all our more southern stations.

Sea rough in the extreme N. and at Scilly, moderate or slight elsewhere.

Barometer falling a little on our S.W. coast, rising in the N. and E. Depression of previous day passing away over the Baltic, but fresh disturbances appearing in the W. of our Islands. Fall taking place in all parts of the Kingdom later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, October 27.

Weather fair in most parts of our Islands, but dull in France and rainy in the S. of Norway.

Temperature fallen a little in the S., but risen in the N.; readings ranging from 55° at Scilly and Dover to 42° at Stornoway and 41° at Parsonstown. Highest maxima 64° at Oxford and Cambridge, and 63° at Loughborough and in London.

Wind light or moderate from S.W. or W. in our Islands, but strong southerly in the S. of Norway. Backing to S.E. on our S.W. coasts later.

Sea rough at Sumburgh Head and Barrow-in-Furness, slight or smooth elsewhere.

Barometer rising at all but the extreme northern stations. Depression noticed in W. on previous day now passing away to the northward of Scotland. Rise extending to northern stations later.

Sunday, October 28.

Weather dull in the extreme W. and S.W., but fine elsewhere, although foggy in several places. Fog clearing away later.

Temperature risen several degrees in W., but fallen in E.; readings ranging from 55° at Pembroke to 43° at Nairn. Highest maxima 62° in London and 61° at Loughborough and Cambridge.

Wind light easterly on our southern coasts, but fresh south-easterly in the W. and N.W., strong westerly in Scandinavia.

Sea rough at Stornoway and Valencia, slight or smooth elsewhere.

Barometer falling a little on our S.W. coasts, and also in the W. of France, rising elsewhere. Large area of high pressure covering the North Sea, the S.E. of England and E. of France. Fall taking place later in all parts of our Islands.

Monday, October 29.

Weather fine at most of the continental stations, but misty or foggy in almost all parts of our Islands. Fog clearing away in some places later.

Temperature changed irregularly; readings ranging from 56° at Scilly, to 46° at Stornoway. Maxima rather lower than on two previous days.

Wind light or moderate generally. Easterly in S., but south-easterly or southerly elsewhere.

Sea moderate to smooth.

Barometer rising in all places. Anticyclone, with readings exceeding 30·4 in., lying over Denmark and the S. of Norway. Rise continuing all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⇒ = a gale; ⟶ = a fresh to strong breeze; → = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	52	39	46·9	40·6	45·3	+0·3	6	0·93	+0·33	*	*
	Stornoway	55	37	52·4	39·7	46·1	+1·7	7	2·12	+1·02	21	33
	Wick	53	36	51·7	39·3	45·5	+1·0	2	0·30	−0·40	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	60	†46	57·7	50·7	54·2	+1·4	5	0·40	−0·68	*	*
	Jersey (Noirmont)	60	46	57·1	51·0	54·1	+2·0	5	0·41	−0·41	9	13

† The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	58	37	52·7	39·3	46·0	+ 1·3	4	0·57	+0·04	*	*
	Aberdeen	55	31	53·1	36·4	44·8	+ 0·1	2	0·19	−0·51	26	40
	Leith	60	36	55·7	39·7	47·7	+ 2·7	3	0·41	−0·04	*	*
2. ENGLAND, N.E.	Alnwick Castle	57	37	52·9	41·4	47·2	+ 2·2	2	0·13	?	*	*
	Shields	56	33	54·1	41·0	47·6	+ 1·6	2	0·04	−0·56	*	*
	Durham	59	37	54·4	40·6	47·5	+ 2·3	2	0·08	−0·60	18	27
	Scarborough ⚓	59	42	55·0	46·2	50·6	+ 5·1	2	0·14	−0·54	*	*
	York	59	34	57·1	42·7	49·9	+ 3·4	3	0·16	−0·44	15	22
	Spurn Head	59	43	54·9	46·0	50·5	+ 3·7	2	0·14	?	*	*
3. ENGLAND, E.	Hillington ⚓	62	36	59·1	44·7	51·9	+ 4·9	3	0·24	−0·29	18	23
	Yarmouth	62	40	56·6	46·9	51·8	+ 3·8	4	0·22	−0·40	*	*
	Geldeston	63	38	59·6	46·5	53·1	+ 4·9	3	0·14	−0·39	23	33
	Cambridge	64	35	60·0	44·1	52·1	+ 4·4	3	0·19	−0·22	19	28
	Rothamsted	62	35	58·3	45·0	51·7	+ 4·7	4	0·26	−0·32	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	59	37	56·6	41·4	49·0	+ 2·0	2	0·33	−0·27	*	*
	Loughborough	63	37	58·9	44·0	51·5	+ 5·1	4	0·26	−0·34	*	*
	Leicester	63	40	59·1	45·3	52·2	+ 6·1	4	0·22	−0·31	14	21
	Birmingham (Oscott)										*	*
	Cheadle ⚓	59	42	54·9	44·6	49·8	+ 4·3	4	0·42	?	*	*
	Churchstoke ⚓	63	39	57·4	45·0	51·2	+ 5·2	2	0·12	?	13	19
	Hereford ⚓	64	38	58·7	45·3	52·0	+ 5·0	4	0·09	−0·61	*	*
	Cirencester	59	38	55·9	44·3	50·1	+ 4·0	5	0·29	−0·41	9	13
	Oxford	64	41	58·9	46·7	52·8	+ 5·5	3	0·11	−0·49	11	16
5. ENGLAND, S.	London†	63	39	60·0	47·0	53·5	+ 5·3	3	0·15	−0·43	7	10
	Marlborough ⚓	61	38	56·8	44·9	50·9	+ 3·4	5	0·27	−0·45	8	12
	Strathfield Turgiss ⚓	61	36	58·8	44·3	51·6	+ 3·6	1	0·03	−0·57	*	*
	Dover	59	41	57·1	47·9	52·5	+ 3·0	2	0·18	−0·59	*	*
	Hastings (St. Leonard's)	60	43	58·3	50·5	54·4	+ 5·4	3	0·14	−0·59	17	25
	Southampton	62	40	59·2	48·3	53·8	+ 4·5	4	0·05	?	12	17
	Hurst Castle	60	38	57·4	48·6	53·0	+ 3·3	2	0·07	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	58	41	54·5	43·9	49·2	+ 3·1	7	1·88	?	*	*
	Glasgow	55	39	52·2	42·7	47·5	+ 3·5	5	0·95	+0·04	15	23
	Ardrossan	55	41	54·2	44·7	49·5	+ 3·9	4	1·14	+0·13	*	*
	Silloth (Cumberland)	60	36	54·8	42·8	48·8	+ 2·5	4	0·71	−0·14	27	40
	Douglas (Isle of Man)	57	37	54·7	42·2	48·5	+ 1·6	4	1·00	−0·03	26	38
7. ENGLAND, N.W.	Barrow-in-Furness	56	35	54·9	43·6	49·3	+ 1·9	3	0·62	?	*	*
	Stonyhurst	58	42	54·9	45·2	50·1	+ 3·9	3	0·92	−0·44	14	21
	Blackpool ⚓	57	38	54·5	42·7	48·6	+ 0·6	3	0·56	−0·47	15	22
	Manchester	58	40	54·9	43·6	49·3	+ 2·6	3	0·90	−0·10	*	*
	Liverpool Obsy (Bidston)	58	42	54·9	45·9	50·4	+ 2·5	3	0·70	−0·20	*	*
	Llandudno ⚓	61	55	56·7	48·2	52·5	+ 3·1	4	0·56	−0·42	21	31
	Holyhead	59	43	56·1	45·4	50·8	+ 1·1	4	0·63	−0·49	*	*
8. ENGLAND, S.W.	Pembroke	58	47	56·0	51·0	53·5	+ 2·9	4	0·17	−0·83	14	20
	Arlington (N. Devon)	60	42	55·0	47·0	51·0	+ 3·0	5	1·42	?	*	*
	Cullompton ⚓	61	40	57·7	46·7	52·2	+ 3·7	4	0·27	?	7	10
	Falmouth	59	49	56·8	52·4	54·6	+ 3·9	3	0·24	−0·84	2	3
	Plymouth	59	37	58·0	49·1	53·6	+ 3·5	4	0·10	−0·75	9	13
	Prawle Point	57	40	55·9	49·0	52·5	+ 1·9	4	0·27	?	*	*
9. IRELAND, N.	Londonderry	59	39	57·1	44·0	50·6	+ 4·6	5	0·90	−0·20	*	*
	Mullaghmore	58	42	54·9	44·3	49·6	+ 3·5	6	1·20	?	*	*
	Markree Castle	58	35	55·3	41·9	48·6	+ 3·0	5	1·09	?	14	21
	Brookeborough	56	35	54·4	42·4	48·4	+ 3·3	3	1·01	?	*	*
	Armagh	59	41	54·9	44·4	49·7	+ 3·8	4	0·71	−0·05	20	29
	Donaghadee	58	37	55·0	41·6	48·3	0·0	2	0·42	?	*	*
10. IRELAND, S.	Dublin	59	43	57·0	46·5	51·8	+ 4·5	3	0·61	−0·09	30	44
	Parsonstown	58	35	55·7	42·1	48·9	+ 2·8	4	0·50	−0·25	15	22
	Roche's Point	58	41	56·3	44·7	50·5	+ 0·6	6	0·57	−0·49	*	*
	Valencia	61	43	57·9	47·1	52·5	+ 2·0	6	0·58	−0·93	13	19
	Foynes	60	43	57·1	45·4	52·1	+ 5·1	4	0·37	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 44.] WEEK ENDING MONDAY, NOVEMBER 5, 1883. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	58	37	51	42	47	4 above.	3	4	2 less.	17	28
	2. ENGLAND, N.E.	55	35	50	42	46	2 above.	3	4	3 less.	9	13
	3. ENGLAND, E.	56	35	51	43	47	2 above.	3	11	6 more.	9	14
	4. MID. COUNTIES	56	30	50	40	45	1 above.	4	12	6 more.	5	6
	5. ENGLAND, S.	57	32	52	44	48	1 above.	3	8	1 more.	4	6
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	56	35	52	45	48	4 above.	4	13	2 more.	17	27
	7. ENGLAND, N.W.	56	30	51	43	47	1 above.	4	11	2 more.	11	17
	8. ENGLAND, S.W.	57	34	54	47	50	3 above.	4	14	5 more.	7	10
	9. IRELAND, N.	59	38	52	45	49	4 above.	5	11	2 more.	8	13
	10. IRELAND, S.	57	37	54	46	50	3 above.	4	12	2 more.	11	17

General Remarks.

Weather during the first few days was generally dull, with fog or mist, but as the week progressed it became very unsettled, squally, and rainy.

Temperature continued above the mean in all districts, the excess varying from 1° over central, southern, and north-western England, to 4° over Scotland and the N. of Ireland. The maxima, which were recorded in most places on the first day of the period, ranged from 55° in "England, N.E." to 58° in "Scotland, E." and 59° in "Ireland, N." The minima were registered at most stations on the 4th, and varied from 30° in the "Midland Counties" and "England, N.W." and 32° in "England, S.", to 37° in "Scotland, E." and "Ireland, S." and 38° in "Ireland, N."

Rainfall has been rather less than the mean in "Scotland, E." and "England, N.E.", but more in all other districts.

Bright sunshine has been very deficient in all places, the percentages ranging from 27 or 28 in Scotland to 6 in the "Midland Counties" and "England, S."

Depressions observed.—During the earlier part of this period the barometer over our Islands continued high and uniform, with light breezes—generally easterly in the S. and southerly in the W. and N. Later on, however, several important depressions travelled from W. to E. off the N. of Scotland, while on the night of the 5th a deep depression, subsidiary to the larger disturbances in the N., passed rapidly across Ireland and England. Strong winds between S. and W. were consequently general during the last few days, and on many parts of our coasts they reached the force of a moderate to fresh gale.

R 9595. 100 & 470.—11/83. Wt. 32. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending November 5, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, October 30.

Weather fine in the N.W. of England, but foggy or misty elsewhere. Sky clearing in E. of Scotland later.

Temperature fallen in most places; readings ranging from 55° at Scilly and Prawle Point to 45° at York.

Wind light or moderate generally; easterly in S. but southerly in W. and N., with variable airs in E. No important change later.

Sea moderate or smooth.

Barometer rising generally. Large anticyclone, with readings above 30·5 ins., lying over Denmark and the S. of Scandinavia, and lowest pressures over the N. of Spain. Slight fall subsequently setting in over our Islands.

Wednesday, October 31.

Weather fine in the E. of Scotland, cloudy or overcast elsewhere, with fog or mist in many places. Slight rain falling in extreme W. and N.W. later.

Temperature changed rather irregularly; readings ranging from 54° at Roche's Point to 41° at Shields.

Wind still easterly in the S., but generally southerly elsewhere. Light or moderate in force over the more eastern districts, but fresh in the W. and strong to a gale at Stornoway.

Sea rough at Stornoway and Valencia, slight or smooth elsewhere.

Barometer falling generally, most in W. and N. Highest pressure still found over Denmark and the S. of Sweden, but series of disturbances appearing on our western coasts. Fall continuing all day.

Thursday, November 1.

Weather cloudy or overcast generally, with fog or mist in many places. Aurora seen at Stornoway in evening.

Temperature fallen a little at most stations: readings ranging from 53° at Scilly to 43° at Aberdeen.

Wind westerly in Scandinavia, but easterly over France and the S. of our Islands, with variable airs elsewhere.

Sea slight or smooth.

Barometer rising a little in most parts of our Islands, but falling elsewhere. Highest pressures found over central Europe with low readings in the N. of Scandinavia and relatively low readings over the N. of Spain. Pressure over our Islands very uniform.

Friday, November 2.

Weather dull generally, with mist in many places and rain in the S. and W. of Ireland. Rain falling later at many western stations, with aurora at Mullaghmore in evening.

Temperature little changed; readings ranging from 55° at Valencia to 40° at Loughborough.

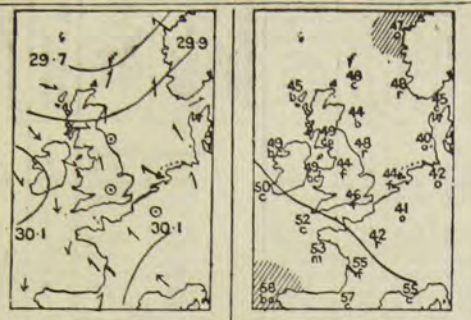
Wind light easterly in S., but southerly in W. and N. Veering to S.W. in Ireland and Scotland later.

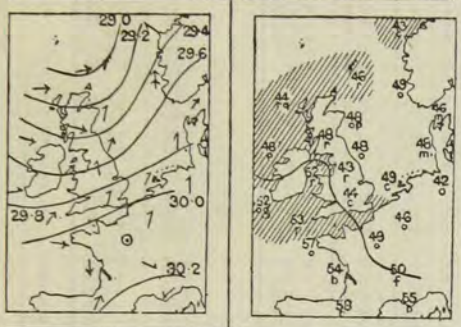
Sea slight or smooth.

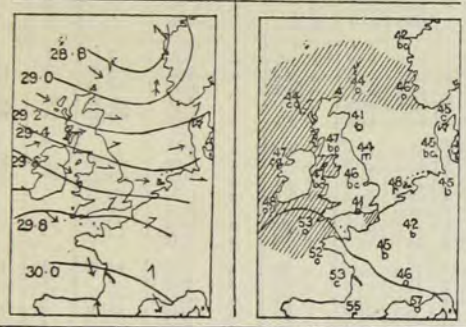
Barometer falling generally. Large anticyclone over N. Germany, with depressions passing along our western coasts. Fall continuing all day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, November 3.

Weather fine in the W. and N., but overcast elsewhere, with fog or rain in many places.

Temperature fallen a little at most stations; readings ranging from 52° at Scilly to 39° at Parsonstown.

Wind moderate westerly or south-westerly in N., but north-westerly in W. and light variable in S.E. Westerly breezes becoming general later.

Sea rather rough at Scilly; moderate to smooth elsewhere.

Barometer falling at all but our western stations. Area of high pressure lying over the S. of Ireland and the Baltic, with large depressions to the northward of Scotland and smaller disturbance over the Bay of Biscay. Rise taking place later in all parts of our Islands and France.

Sunday, November 4.

Weather squally and rainy generally. Some improvement taking place in W. and N. later. Lightning occurring in Ireland and Scotland in evening.

Temperature risen a little, excepting in the S.E.; readings ranging from 55° at Roche's Point to 40° at Cambridge.

Wind fresh or strong in force generally; westerly in the W. and N., but south-westerly or southerly elsewhere. Veering to W. in all places later, and increasing to gale at several western and southern stations.

Sea rough on our western, southern, and extreme northern coasts.

Barometer rising France, falling quickly elsewhere. Large and rather deep depression appearing off the Shetlands, and some shallow subsidiary disturbances over Ireland and England. All these moving eastwards later, and barometer rising again in W.

Monday, November 5.

Weather fair in most places in morning, but cloud and rain subsequently extending over the whole Kingdom from the westward.

Temperature fallen generally; readings ranging from 53° at Scilly to 41° at Wick, Aberdeen, and in London.

Wind fresh or strong westerly at all but the Scandinavian stations, where southerly. Backing to S.W. and S. in W. later, and increasing to slight gale in S.W.

Sea rough on all but our E. coasts.

Barometer rising in most parts of our Islands, but falling elsewhere. Depressions noticed off Shetlands on previous day now found off the W. of Norway. Deep subsidiary disturbance advancing over Ireland later, and barometer falling quickly again at all but the extreme northern stations.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	52	42	45·6	44·3	47·0	+3·4	6	1·31	+0·70	•	•
	Stornoway	58	35	51·0	41·1	46·1	+2·8	5	1·54	+0·45	18	30
	Wick	57	39	50·0	43·1	46·6	+3·5	3	0·40	−0·30	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	56	49	54·3	50·7	52·5	+0·2	3	0·65	−0·35	•	•
	Jersey (Noirmont)	56	43	52·9	46·3	49·6	−0·4	3	0·84	+0·04	4	6

† The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	58	39	52·0	43·6	47·8	+ 5·0	3	0·59	+0·06	*	*
	Aberdeen	54	38	50·9	40·3	45·6	+ 2·5	2	0·23	−0·47	17	28
	Leith	55	37	51·1	41·9	46·5	+ 3·4	3	0·32	−0·11	*	*
2. ENGLAND, N.E.	Alnwick Castle	52	36	49·7	40·0	44·9	+ 1·4	1	0·20	?	*	*
	Shields	55	39	51·3	42·6	47·0	+ 2·5	2	0·10	−0·52	*	*
	Durham	55	35	50·3	39·8	45·1	+ 1·7	2	0·12	−0·58	11	17
	Scarborough ⚓	52	38	49·7	43·3	46·5	+ 2·6	4	0·59	−0·11	*	*
	York	52	37	50·3	41·9	46·1	+ 1·1	4	0·61	+0·01	6	9
	Spurn Head	53	40	50·1	44·0	47·1	+ 1·6	4	0·76	?	*	*
3. ENGLAND, E.	Hillington ⚓	56	38	51·2	43·0	47·1	+ 1·6	3	1·18	+0·65	8	13
	Yarmouth	53	40	50·9	45·6	48·3	+ 2·3	3	1·40	+0·76	*	*
	Geldeston	54	39	51·0	43·8	47·4	+ 1·1	2	1·10	+0·55	8	12
	Cambridge	55	35	51·4	42·7	47·1	+ 1·6	4	0·85	+0·45	11	17
	Rothamsted	51	35	49·7	41·9	45·8	+ 0·8	4	0·96	+0·41	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	52	38	49·9	41·3	45·6	+ 0·1	6	0·98	+0·42	*	*
	Loughborough	53	35	49·6	40·6	45·1	+ 0·8	4	1·38	+0·82	*	*
	Leicester	56	33	50·4	39·5	45·0	+ 1·0	3	1·35	+0·84	5	8
	Birmingham (Oscott)	?55	36	?49·5	37·7	?43·6	? − 0·4	4	1·53	+0·89	*	*
	Cheadle ⚓	51	35	48·2	39·6	43·9	+ 0·3	4	1·46	?	*	*
	Churchstoke ⚓	56	36	50·3	41·2	45·8	+ 1·9	2	1·34	?	4	6
	Hereford ⚓	54	34	51·1	42·1	46·6	+ 1·6	3	0·84	+0·19	*	*
	Cirencester	53	30	50·0	39·0	44·5	+ 0·5	2	0·85	+0·19	2	3
	Oxford	55	34	51·0	40·7	45·9	+ 0·9	3	0·63	+0·07	3	5
5. ENGLAND, S.	London†	55	39	52·0	44·1	48·1	+ 2·1	3	0·63	+0·10	3	5
	Marlborough ⚓	53	32	49·8	38·8	44·3	− 0·5	3	0·97	+0·34	2	3
	Strathfield Turgiss ⚓	55	35	51·8	41·2	46·5	+ 0·9	4	0·64	+0·09	*	*
	Dover	55	41	52·4	46·2	49·3	+ 1·9	3	0·59	−0·21	*	*
	Hastings (St. Leonard's)	57	39	51·5	45·3	48·4	+ 1·4	3	0·73	+0·03	9	14
	Southampton	55	36	52·9	44·0	48·5	+ 1·2	2	0·94	?	2	3
	Hurst Castle	55	40	52·9	45·9	49·4	+ 1·4	3	0·74	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	55	40	51·9	45·9	48·9	+ 4·3	6	1·83	?	*	*
	Glasgow	54	40	51·1	43·7	47·4	+ 5·4	3	0·96	+0·06	12	19
	Ardrossan	53	41	51·9	45·3	48·6	+ 4·9	4	0·83	−0·16	*	*
	Silloth (Cumberland)	56	35	51·7	42·8	47·3	+ 3·0	4	1·14	+0·34	25	40
	Douglas (Isle of Man)	55	41	51·4	44·9	48·2	+ 3·4	4	1·49	+0·47	15	23
7. ENGLAND, N.W.	Barrow-in-Furness	54	42	50·7	44·9	47·8	+ 2·2	4	1·11	?	*	*
	Stonyhurst	55	37	50·4	41·3	45·9	+ 1·4	4	1·52	+0·72	9	14
	Blackpool ⚓	52	39	50·1	42·2	46·2	− 0·1	4	1·35	+0·45	10	16
	Manchester	53	30	49·5	39·2	44·4	− 0·6	4	1·16	+0·21	*	*
	Liverpool Obs^{y} (Bidston)	53	41	50·0	44·0	47·0	+ 0·7	3	0·74	−0·04	*	*
	Llandudno ⚓	56	44	51·7	44·9	48·3	+ 0·6	4	0·76	−0·16	14	22
	Holyhead	54	44	51·6	44·9	48·3	+ 0·3	4	1·12	+0·12	*	*
8. ENGLAND, S.W.	Pembroke	55	46	53·4	48·4	50·9	+ 2·3	4	1·30	+0·33	11	17
	Arlington (N. Devon)	54	37	53·3	44·3	48·8	+ 3·0	4	2·51	?	*	*
	Cullompton ⚓	55	34	53·4	45·1	49·3	+ 2·6	4	0·84	?	3	5
	Falmouth	56	45	54·4	48·5	51·5	+ 2·5	5	1·86	+0·71	7	10
	Plymouth	56	36	55·1	47·0	51·1	+ 2·6	3	1·32	+0·51	6	9
	Prawle Point	57	42	54·6	47·1	50·9	+ 1·9	4	0·80	?	*	*
9. IRELAND, N.	Londonderry	58	40	53·6	44·8	49·2	+ 4·7	5	0·78	−0·24	*	*
	Mullaghmore	56	41	52·3	46·1	49·2	+ 4·5	6	1·29	?	*	*
	Markree Castle	55	40	51·7	44·2	48·0	+ 3·9	6	1·08	?	7	11
	Brookeborough	54	38	51·1	44·0	47·6	+ 4·1	4	1·39	?	*	*
	Armagh	59	40	51·9	45·2	48·6	+ 4·1	4	1·13	+0·43	9	14
	Donaghadee	54	41	51·3	46·6	49·0	+ 2·5	4	0·77	?	*	*
10. IRELAND, S.	Dublin	57	41	53·1	46·0	49·6	+ 3·9	3	1·11	+0·41	14	22
	Parsonstown	56	37	53·3	43·4	48·4	+ 3·8	4	0·97	+0·27	11	17
	Roche's Point	57	43	55·7	47·7	51·7	+ 3·2	5	1·28	+0·18	*	*
	Valencia	57	45	55·3	49·0	52·2	+ 3·2	6	1·68	+0·30	8	12
	Foynes	54	40	53·8	43·0	48·4	+ 2·9	3	0·95	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 45.] WEEK ENDING MONDAY, NOVEMBER 12, 1883. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	50	27	44	32	38	4 below.	4	3	2 less.	36	62
	2. ENGLAND, N.E.	51	29	46	35	40	3 below.	4	2	5 less.	24	40
	3. ENGLAND, E.	55	23	49	34	41	2 below.	5	5	1 less.	26	41
	4. MID. COUNTIES	55	22	47	34	41	2 below.	4	3	3 less.	21	34
	5. ENGLAND, S.	57	28	50	37	44	1 below.	5	5	2 less.	20	31
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	49	24	45	34	40	3 below.	5	12	4 more.	23	38
	7. ENGLAND, N.W.	51	25	47	37	42	3 below.	4	6	3 less.	20	33
	8. ENGLAND, S.W.	55	32	50	40	45	1 below.	7	12	2 more.	18	28
	9. IRELAND, N.	49	29	47	35	41	2 below.	5	6	2 less.	17	27
	10. IRELAND, S.	56	32	49	38	44	1 below.	5	9	0 (average).	21	34

General Remarks.

Weather has been finer in the northern and north-eastern parts of the Kingdom than for some time past, but elsewhere cloudy skies and rather frequent falls of rain have prevailed. In Scotland snow and sleet fell on the 9th and 10th.

Temperature has been below the mean in all districts, the deficit ranging from 4° in the E. of Scotland to 1° in the S. and S.W. of England and S. of Ireland. The maxima were generally recorded on the 6th, and varied from 49° in "Scotland, W." and "Ireland, N.", to 58° in "Ireland, S." and 57° in "England, S." The minima, which were registered on the 12th, were rather low in all places; in the "Midland Counties" the thermometer fell to 22°, in "England, E." to 23°, in "Scotland, W." to 24°, and elsewhere to between 25° and 32°.

Rainfall has been a little more than the mean in "Scotland, W." and "England, S.W.", and about equal to it in "Ireland, S.", but less in all other districts.

Bright sunshine shows an increase in duration in all places—especially in the N. and N.E. The percentages of possible duration varied from 27 in "Ireland, N.", 28 in "England, S.W.", to 41 in "England, E." and 62 in "Scotland, E."

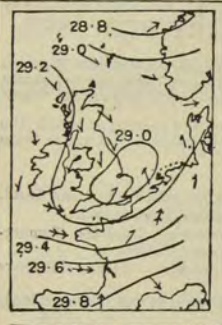
Depressions observed.—Barometric pressure has been highest and comparatively steady over the S. of France, while in other parts of our area, owing to the passage eastwards of several subsidiary disturbances across our Islands and some larger depressions farther to the northward, it has oscillated considerably. The wind, excepting at the close of the period, when it was very variable in direction, has been generally between S.W. and W. and light to moderate in force; on the evening of the 10th, however, it veered to the north-westward or northward on our northern coasts, and in many places blew strongly.

R 9701. 100 & 470.—11/83. Wt. 32. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending November 12, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, November 6.

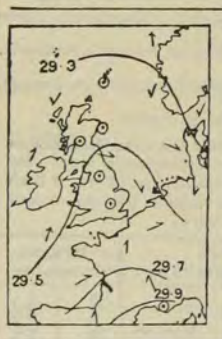
Weather changeable and showery in most places, with hail in the W. of Scotland.

Temperature risen quickly S. and S.E., fallen elsewhere; readings ranging from 54° in the S.E. of England to 32° at Aberdeen. Brisk fall taking place in S.E. later.

Wind light north-westerly in N., but fresh northerly in W., and westerly gales in S. Veering to N.W. in S. later, and moderating.

Sea rough in the W. and S. generally.

Barometer rising in extreme W. and N., falling elsewhere. Large depression lying off the N.W. of Norway, and well-defined subsidiary disturbance off the E. of England. Latter subsequently moving eastwards, and barometer rising in all parts of our Islands.



Wednesday, November 7.

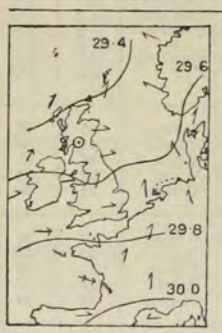
Weather cloudy and showery in the S.W. of England, generally fine elsewhere, with fog or mist locally. Rain falling later in most places, and thunderstorms occurring in the S. of England.

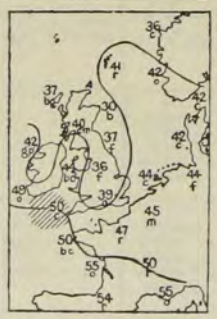
Temperature fallen generally; readings ranging from 49° at Scilly to 30° at Nairn and Aberdeen.

Wind moderate north-westerly over the North Sea, and south-westerly in the Bay of Biscay, but light and variable in our Islands. Light southerly or south-westerly breezes appearing over the United Kingdom later.

Sea rough at Scilly, moderate or smooth elsewhere.

Barometer rising on all but our S.W. coasts. Depressions of previous day both passing away to the eastward, and ridge of relatively high readings lying over our Islands. Some shallow disturbances appearing in W. later.





Thursday, November 8.

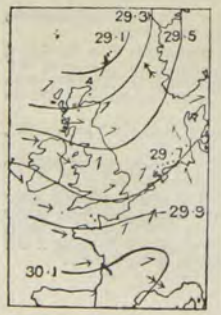
Weather cloudy and showery in the W., but fair in the E., with fogs locally. Rain falling at all western and northern stations later, and lightning occurring at Mullaghmore.

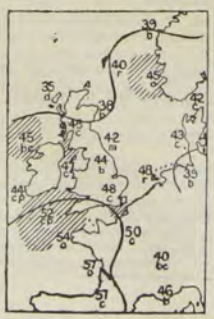
Temperature risen most places; readings ranging from 50° at Scilly to 30° at Aberdeen.

Wind light south-westerly or westerly in our Islands, but south-easterly in Norway and Denmark. South-westerly winds freshening considerably in extreme W. later.

Sea rather rough at Scilly; slight or smooth elsewhere.

Barometer rising at all but the Scotch stations, where slight fall. Readings highest S. of France and lowest in extreme N. of our Islands, but gradients slight. Depression subsequently skirting our extreme W. and N.W. coasts, and barometer falling somewhat in W. and N. generally.





Friday, November 9.

Weather fine in the E., but showery in the W. and extreme N. Showers falling generally later, with hail and sleet in the N. Lightning seen in the W. at night.

Temperature risen generally; readings ranging from 52° at Scilly and Jersey to 35° at Stornoway.

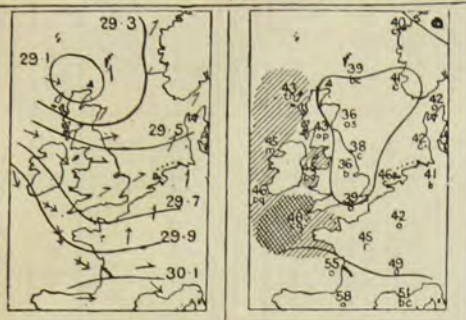
Wind strong north-westerly in W., but moderate westerly or south-westerly elsewhere.

Sea rather rough in the W. and S.W. generally.

Barometer falling at all but our western stations. Readings still highest in S. of France, with large and rather deep depression lying off the N. of Scotland. Slight rise taking place in most parts of our Islands later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, November 10.

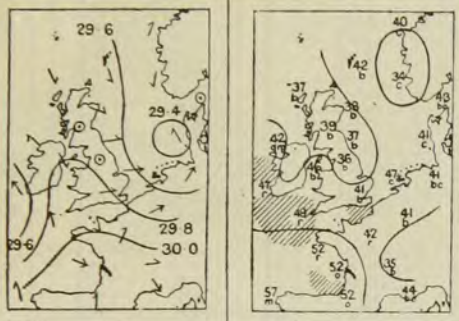
Weather fair in S. and E., but very unsettled in W. and N., with hail showers in many places, snow at Wick and Aberdeen, and a thunderstorm at Stornoway.

Temperature fallen generally—quickly over England; readings ranging from 46° at Valencia and Scilly to 35° at Wick and Loughborough and 34° at Donaghadee and Parsonstown.

Wind strong north-westerly in W. and S.W., with a gale at the mouth of the Channel, moderate westerly in the E. and N.E. North-westerly winds becoming general later, and blowing very strongly in N.W. and N.E.

Sea rough in W. and S.W.

Barometer rising in Ireland, falling elsewhere. Depression noticed off N. of Scotland on previous day moving south-eastwards along our E. coasts. Rise taking place generally later.



Sunday, November 11.

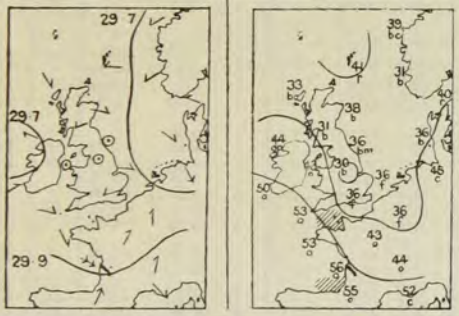
Weather fair at all but our south-western stations, where dull and rainy. Rain subsequently falling in W. and N. generally.

Temperature changed rather irregularly; readings ranging from 49° at Scilly to 30° at Wick. Sharp frost over central England at night.

Wind moderate north-westerly in N. and E., but strong south-easterly in S.W. Shifting to N.W. in S.W. later.

Sea rough on our S.W. coasts, moderate or smooth elsewhere.

Barometer falling a little in Denmark and rapidly over the south of Ireland. Depression of previous day now lying over Denmark, but new and apparently deep disturbance approaching the south of Ireland. Latter subsequently dispersing very suddenly.



Monday, November 12.

Weather dull and rainy in the S. of Sweden, but fair in most parts of our Islands and France, with fogs locally.

Temperature risen in W., fallen elsewhere, quickly over central England; readings ranging from 53° at Scilly to 26° at Cambridge and 22° at Loughborough.

Wind strong north-westerly in Bay of Biscay, but light and somewhat variable in our Islands.

Sea moderate to smooth generally.

Barometer falling at the French and our southern stations, rising elsewhere. Depression of Saturday now lying off the E. of Denmark, and apparently filling up. Very shallow disturbance found over the W. of Ireland. Rise becoming general later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟶ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	45	35	44·0	36·4	40·2	−2·2	6	1·02	+0·11	*	*
	Stornoway	48	31	45·0	33·1	39·1	−3·0	6	1·23	+0·19	21	37
	Wick	47	25	43·9	30·9	37·4	−4·5	7	0·46	−0·25	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	42	52·7	46·1	49·4	−0·2	7	1·24	+0·26	*	*
	Jersey (Noirmont)	56	41	53·4	44·9	49·2	+1·9	7	2·14	+1·39	13	20

† The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	44	30	42·1	33·1	37·6	− 3·5	5	0·45	−0·08	*	*
	Aberdeen	46	27	44·3	30·0	37·2	− 4·5	3	0·28	−0·40	36	62
	Leith	50	28	46·1	31·9	39·0	− 2·6	3	0·26	−0·19	*	*
2. ENGLAND, N.E.	Alnwick Castle	45	29	43·9	33·4	38·7	− 3·3	3	0·22	?	*	*
	Shields	47	33	43·7	34·6	39·2	− 3·8	3	0·08	−0·57	*	*
	Durham	48	30	46·3	31·9	39·1	− 2·4	3	0·18	−0·52	30	50
	Scarborough ℳ	48	33	45·7	36·1	40·9	− 1·7	6	0·48	−0·26	*	*
	York	51	29	46·7	33·3	40·0	− 2·9	4	0·21	−0·39	18	29
	Spurn Head	48	35	46·4	37·9	42·2	− 1·3	3	0·10	?	*	*
3. ENGLAND, E.	Hillington ℳ	52	24	46·9	33·0	40·0	− 3·5	5	0·46	−0·08	16	26
	Yarmouth	52	32	46·9	35·3	41·1	− 2·8	6	0·40	−0·28	*	*
	Geldeston	54	29	49·2	35·2	42·2	− 2·0	5	0·43	−0·15	28	44
	Cambridge	55	23	49·7	33·0	41·4	− 1·7	4	0·43	+0·03	33	52
	Rothamsted	54	28	49·2	33·5	41·4	− 1·5	6	0·37	−0·14	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	47	25	45·1	33·4	39·3	− 4·2	3	0·15	−0·35	*	*
	Loughborough	51	22	46·7	33·4	40·1	− 2·4	4	0·22	−0·30	*	*
	Leicester	51	23	45·9	33·9	39·9	− 2·2	5	0·26	−0·24	19	31
	Birmingham (Oscott)	50	24	48·1	32·9	40·5	− 1·3	4	0·13	−0·45	*	*
	Cheadle ℳ	48	30	45·7	33·3	39·5	− 2·5	4	0·35	?	*	*
	Churchstoke ℳ	52	28	47·2	32·4	39·8	− 1·9	4	0·66	?	16	26
	Hereford ℳ	55	29	48·5	35·3	41·9	− 1·2	5	0·18	−0·43	*	*
	Cirencester	52	29	47·4	35·6	41·5	− 1·1	6	0·25	−0·36	19	30
	Oxford	54	31	50·0	35·6	42·8	− 0·1	3	0·37	−0·13	31	49
5. ENGLAND, S.	London†	56	33	50·0	36·4	43·2	− 0·6	4	0·36	−0·13	15	24
	Marlborough ℳ	53	30	48·6	34·1	41·4	− 0·9	5	0·39	−0·22	20	32
	Strathfield Turgiss ℳ	56	28	50·6	35·0	42·8	− 0·7	5	0·23	−0·29	*	*
	Dover	56	39	49·9	40·3	45·1	− 0·4	4	0·32	−0·53	*	*
	Hastings (St. Leonard's)	57	36	51·1	39·4	45·3	0·0	5	0·67	−0·03	28	44
	Southampton	57	31	50·8	36·7	43·8	− 1·2	5	0·64	?	15	24
	Hurst Castle	56	38	51·7	40·0	45·9	− 0·1	4	0·65	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	47	29	44·1	33·2	38·7	− 4·3	5	2·05	?	*	*
	Glasgow	46	25	42·5	32·4	37·5	− 3·2	4	0·79	−0·07	16	27
	Ardrossan	48	30	46·3	35·6	41·0	− 1·2	5	1·71	+0·76	*	*
	Silloth (Cumberland)	48	24	45·5	32·4	39·0	− 3·8	4	0·45	−0·27	26	43
	Douglas (Isle of Man)	49	31	47·5	35·1	41·3	− 2·1	5	0·95	−0·07	27	44
7. ENGLAND, N.W.	Barrow-in-Furness	50	31	47·0	38·0	42·5	− 1·8	4	0·80	?	*	*
	Stonyhurst	47	26	44·9	33·3	39·1	− 3·5	4	1·02	−0·18	22	36
	Blackpool ℳ	50	25	47·0	36·1	41·6	− 3·4	4	0·93	+0·16	20	33
	Manchester	48	28	45·9	32·5	39·2	− 4·2	4	0·51	−0·39	*	*
	Liverpool Obsy (Bidston)	50	33	47·3	38·6	43·0	− 1·6	5	0·30	−0·36	*	*
	Llandudno ℳ	51	36	48·6	39·4	44·0	− 2·1	3	0·13	−0·72	19	31
	Holyhead	51	39	47·3	40·0	43·7	− 3·2	4	0·45	−0·40	*	*
8. ENGLAND, S.W.	Pembroke	53	42	50·1	44·1	47·1	+ 1·1	5	0·43	−0·47	17	27
	Arlington (N. Devon)	52	34	47·1	37·4	42·3	− 1·2	7	1·81	?	*	*
	Cullompton ℳ	54	32	48·9	36·3	42·6	− 2·0	5	0·99	?	14	22
	Falmouth	55	41	51·5	43·4	47·5	+ 0·5	7	2·21	+1·01	24	34
	Plymouth	54	34	50·8	37·4	44·1	− 2·2	7	0·70	−0·10	17	27
	Prawle Point	54	39	50·7	41·0	45·9	− 0·7	7	1·14	?	*	*
9. IRELAND, N.	Londonderry	48	31	46·4	33·7	40·1	− 3·0	4	0·55	−0·36	*	*
	Mullaghmore	49	37	47·9	39·9	43·9	+ 0·1	7	1·06	?	*	*
	Markree Castle	49	30	47·0	34·4	40·7	− 2·1	7	0·52	?	16	26
	Brookeborough	48	29	46·1	32·2	39·2	− 2·9	3	0·71	?	*	*
	Armagh	47	33	45·3	35·0	40·2	− 2·8	5	0·33	−0·29	17	28
	Donaghadee	48	33	47·0	35·3	41·2	− 3·2	3	0·28	?	*	*
10. IRELAND, S.	Dublin	49	34	47·3	37·5	42·4	− 1·7	4	0·12	−0·57	24	39
	Parsonstown	49	32	47·1	34·4	40·8	− 2·1	4	0·65	+0·04	21	32
	Roche's Point	56	36	52·3	38·7	45·5	− 1·0	5	1·09	−0·01	*	*
	Valencia	54	39	52·0	41·7	46·9	− 0·9	6	1·26	+0·01	19	30
	Foynes	52	34	46·5	38·3	42·4	− 1·4	4	1·40	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 46.] WEEK ENDING MONDAY, NOVEMBER 19, 1883. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	DISTRICTS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	50	29	44	33	39	2 below.	4	6	0 (average).	10	18
	2. ENGLAND, N.E.	47	30	44	35	40	2 below.	6	6	1 less.	8	14
	3. ENGLAND, E.	51	24	47	34	41	1 below.	6	9	3 more.	18	30
	4. MID. COUNTIES	52	20	46	31	38	3 below.	5	11	6 more.	17	28
	5. ENGLAND, S.	53	23	48	33	41	2 below.	4	8	2 more.	22	35
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	52	24	44	32	38	3 below.	5	13	2 more.	10	17
	7. ENGLAND, N.W.	53	21	46	35	40	3 below.	5	11	3 more.	12	21
	8. ENGLAND, S.W.	54	23	50	37	44	1 below.	5	13	3 more.	23	37
	9. IRELAND, N.	53	22	47	33	40	2 below.	5	13	6 more.	20	23
	10. IRELAND, S.	57	27	51	39	45	1 above.	6	12	3 more.	23	38

General Remarks.

Weather at the opening of the week was generally fair and dry, but afterwards became very changeable, squally, and rainy. Hail, snow, and sleet showers were experienced at many of our north-western and northern stations, and in some places were accompanied by thunder and lightning.

Temperature has been slightly above the mean in "Ireland, S.", but from 1° to 3° below it in all other districts. The maxima, which were generally registered on the 18th, varied from 47° in "England, N.E." to 57° in "Ireland, S." The minima were recorded during the earlier days of the period, and were rather low in all places, ranging from 20° in the "Midland Counties", 21° in "England, N.W.", and 23° in "Ireland, N.", to between 23° and 30° elsewhere.

Rainfall has been about equal to the mean in "Scotland, E.", and a little less in "England, N.E.", but in all other districts an excess is shown.

Bright sunshine, except in the southern and south-western parts of England and Ireland, has been less prevalent than during last week, the percentages of possible duration ranging from 14 in "England, N.E.", 17 in "Scotland, W.", and 18 in "Scotland, E.", to 35 in "England, S.", 37 in "England, S.W.", and 38 in "Ireland, S."

Depressions observed.—At the commencement of the period, barometric pressure over the United Kingdom was comparatively high and uniform, while a depression existed over the Baltic. By the 11th, however, the conditions had changed, and during the remainder of the week some large depressions passed in an easterly direction to the northward of Scotland, while several subsidiary disturbances travelled across our Islands. The wind, which at first was light or moderate from the northward or eastward, subsequently blew from between S. and W., and at times increased to the force of a gale. On the 17th, during the passage of a small depression over central England, the gale at some of our southern stations was very severe.

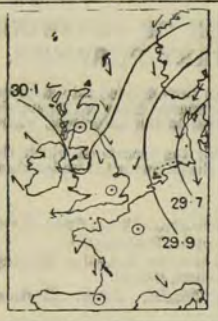
R 9788. 100 & 470.—11/83. Wt. 32. E. & S.

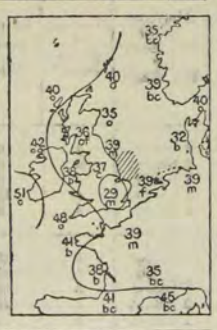
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending November 19, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Tuesday, November 13.

Weather fair in most parts of our Islands and France, but rainy on the shores of the Baltic.

Temperature fallen in the W. and S., risen elsewhere; readings ranging from 51° at Scilly to 30° in London. Sharp frost over England at night, thermometer on the grass in London falling to 19°.

Wind strong to a gale from N.E. in Denmark and the S. of Sweden, but moderate northerly on our E. coasts, and south-easterly in the W.

Sea rough at Scilly, moderate or slight elsewhere.

Barometer falling over the southern parts of Sweden and France, but rising in our Islands. Pressure highest in far N., but band of high readings extending southwards over Great Britain. Rather deep depression lying over the Baltic. Rise becoming general later.

Wednesday, November 14.

Weather showery on the E. coast of England, generally fine elsewhere, with fog or mist locally.

Temperature fallen in the W. and S.W.; readings ranging from 50° at Roche's Point to 32° in London and at Oxford and 28° at Parsonstown. Sharp frost over England again at night, thermometer on the grass in London falling to 18°.

Wind very similar to that of previous day, but gales in Sweden and Denmark subsiding.

Sea rather rough on the E. coast of England, moderate or smooth elsewhere.

Barometer rising generally. Readings highest in N. of Scandinavia, but band of relatively high pressure extending southwards over our Islands and the N. of France. Slight fall taking place in many parts later, and distribution of pressure becoming rather irregular.

Thursday, November 15.

Weather dull and unsettled on our W. coasts, but generally fair in other localities, with fog locally. Rain subsequently extending from westward to all parts of our Islands.

Temperature fallen at all but the western stations; readings varying from 51° at Valencia to 29° in London and 28° at Donaghadee and Oxford.

Wind fresh easterly in Scandinavia and moderate northerly in Denmark, but southerly on our western coasts, and light variable in the E. and S. Fresh south-westerly breezes setting in on our S.E. coasts later.

Sea rather rough at Spurn Head, moderate to smooth elsewhere.

Barometer falling generally. Readings still highest over the N. of Scandinavia and relatively high in the S. of France, but depressions beginning to appear on the Irish coasts. Centre of small depression advancing over Ireland later in day.

Friday, November 16.

Weather fine on our extreme northern and south-western coasts, but cloudy or overcast elsewhere, with rain in many places.

Temperature risen quickly over England; readings ranging from 50° at Scilly and Jersey to 30° at Nairn. Frost occurring in Great Britain at night.

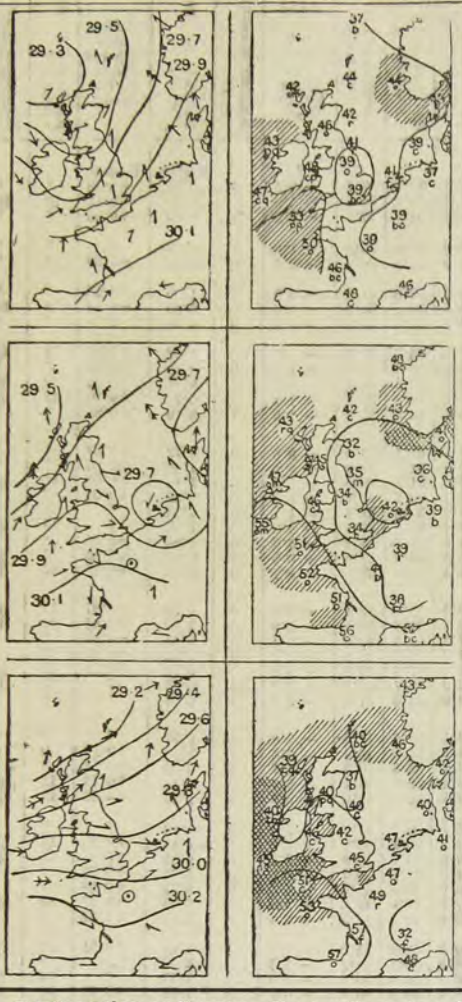
Wind strong north-westerly in W. and S.W., but fresh southerly in E., and moderate south-easterly in N. Backing to S.W. in extreme W. later.

Sea rather rough on some exposed parts of our western and southern coasts as well as at Spurn Head.

Barometer rising W. and S.W., falling elsewhere. Depression noticed over Ireland on previous evening found over the N.W. of England in morning, and subsequently breaking up. Fresh disturbances appearing in W. and N. later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, November 17.

Weather fair in France and the S.E. of England, cloudy or overcast elsewhere, with showers at several of our western and northern stations. Heavy rain in S.E. later.

Temperature risen at all but our south-eastern stations; readings ranging from 53° at Scilly to 35° at Cambridge.

Wind south-westerly in Great Britain and south-easterly in Norway and Denmark, but westerly or north-westerly in Ireland; moderate or fresh in force generally. Slight gale in S. later, and very severe south-westerly squall on coast of Hampshire in afternoon.

Sea rough on several parts of our western and south-western coasts.

Barometer falling at all but our south-eastern and the French stations. Readings relatively high in Sweden and the S. of France, but lowest off our extreme northern coasts, with well marked subsidiary depression over the Irish Sea. Depression subsequently increasing in depth and moving eastwards.

Sunday, November 18.

Weather fine at most of the eastern stations, but dull and rainy in the W. and N.W. Rain falling in E. later; a thunderstorm occurring at Stornoway and lightning at several of the northern stations.

Temperature risen a little in Ireland and France, fallen elsewhere; readings varying from 55° at Valencia to 32° at Aberdeen.

Wind moderate north-westerly in S.E., but strong southerly on W. coasts of Ireland and Scotland, and south-easterly in Norway and Denmark. Veering to S.W. in W. later.

Sea rough on our western and south-eastern coasts, moderate to smooth elsewhere.

Barometer rising England and France, falling elsewhere. Depression of previous day now shown over Holland, but new and larger disturbance appearing on our extreme N.W. coasts. Subsidiary depression subsequently travelling eastwards across Ireland and England.

Monday, November 19.

Weather fair in the S. and S.E., cloudy and showery elsewhere, with hail in the W. of Ireland. Showers falling generally later, with lightning at many of the western and northern stations, and thunderstorms at Sumburgh Head, Mullaghmore, and Hawes Junction.

Temperature risen several degrees over France and the S.E. of England, fallen in Ireland and Scotland; readings ranging from 53° at Jersey to 35° at Nairn.

Wind strong westerly in W. and S., but moderate or fresh southerly or south-westerly elsewhere. Increasing to gale in W. and S.W. later.

Sea rough or high on our western, south-western, and extreme northern coasts.

Barometer falling at all but our south-western and the French stations. Readings highest S. of France, and large depression lying off the N. of Scotland. Small subsidiary disturbances passing across Ireland and England later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟹ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	45	35	44·6	36·7	40·7	−0·9	6	1·32	+0·71	*	*
	Stornoway	48	32	44·9	34·0	39·5	−1·8	6	1·02	+0·02	10	19
	Wick	47	32	44·6	35·9	40·3	−0·6	6	0·47	−0·28	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	44	53·7	46·7	50·2	+1·5	6	0·78	−0·16	*	*
	Jersey (Noirmont)	55	41	51·4	42·9	47·2	+1·2	6	1·07	+0·36	20	32

† The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	48	29	43·3	32·0	37·7	− 2·5	4	0·65	+0·12	*	*
	Aberdeen	46	30	43·6	33·0	38·3	− 1·9	5	0·57	−0·11	10	18
	Leith	50	29	45·0	34·3	39·7	− 0·8	3	0·56	+0·08	*	*
2. ENGLAND, N.E.	Alnwick Castle	46	30	42·9	34·0	38·5	− 1·9	7	0·51	?	*	*
	Shields	45	33	43·4	35·0	39·2	− 2·5	6	0·28	−0·39	*	*
	Durham											
	Scarborough ℳ	47	36	44·4	37·6	41·0	− 0·5	7	1·00	+0·23	*	*
	York	47	30	44·6	33·1	38·9	− 2·4	6	0·40	−0·16	8	14
	Spurn Head	46	33	44·7	37·0	40·9	− 1·1	6	0·89	?	*	*
3. ENGLAND, E.	Hillington ℳ	47	30	45·2	34·3	39·8	− 1·7	5	1·16	+0·62	11	19
	Yarmouth	48	34	45·9	36·0	41·0	− 1·2	6	0·98	+0·24	*	*
	Geldeston	51	33	47·6	35·5	41·6	− 0·9	7	0·81	+0·21	19	32
	Cambridge	50	24	47·7	31·3	39·5	− 1·9	4	0·72	+0·26	23	38
	Rothamsted	50	29	46·7	32·3	39·5	− 1·3	7	0·70	+0·23	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	46	32	44·6	34·1	39·4	− 2·5	5	0·72	+0·23	*	*
	Loughborough	48	22	46·0	31·7	38·9	− 2·0	5	1·46	+0·96	*	*
	Leicester	48	25	45·2	31·9	38·6	− 1·8	6	1·44	+0·95	11	19
	Birmingham (Oscott)	47	27	43·9	30·7	37·3	− 2·7	4	1·48	+0·95	*	*
	Cheadle ℳ	47	29	44·2	32·5	38·4	− 1·9	5	1·32	?	*	*
	Churchstoke ℳ	52	20	44·6	29·5	37·1	− 3·2	5	1·11	?	15	25
	Hereford ℳ	49	23	47·6	28·7	38·2	− 3·3	5	1·04	+0·44	*	*
	Cirencester	51	22	46·3	28·9	37·6	− 3·0	4	0·84	+0·24	19	32
	Oxford	51	27	47·3	29·6	38·5	− 2·7	4	0·74	+0·31	22	37
5. ENGLAND, S.	London†	51	28	49·0	31·1	40·1	− 1·9	4	0·36	−0·07	14	23
	Marlborough ℳ	51	23	46·1	30·8	38·5	− 2·2	4	1·26	+0·66	19	31
	Strathfield Turgiss ℳ	52	23	47·6	30·4	39·0	− 2·8	4	0·46	−0·03	*	*
	Dover	50	35	47·9	36·9	42·4	− 1·6	5	0·56	−0·34	*	*
	Hastings (St. Leonard's)	53	34	49·3	37·4	43·4	− 0·6	5	0·79	+0·14	31	51
	Southampton	53	28	48·9	32·7	40·8	− 2·2	4	0·96	?	22	36
	Hurst Castle	53	30	50·0	33·0	41·5	− 3·0	4	0·98	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	50	28	43·1	32·5	37·8	− 3·9	4	2·37	?	*	*
	Glasgow	48	24	41·5	31·3	36·4	− 3·6	7	1·02	+0·16	0	0
	Ardrossan	49	29	44·7	33·6	39·2	− 1·7	5	0·89	−0·01	*	*
	Silloth (Cumberland)	48	26	43·4	32·6	38·1	− 3·7	5	1·11	+0·50	11	19
	Douglas (Isle of Man)	52	28	47·1	32·0	39·6	− 2·9	6	1·23	+0·23	19	33
7. ENGLAND, N.W.	Barrow-in-Furness	49	31	46·7	35·7	41·2	− 1·9	5	1·10	?	*	*
	Stonyhurst	46	27	43·2	33·1	38·2	− 2·9	5	1·44	+0·31	10	18
	Blackpool ℳ	49	27	45·8	33·7	39·8	− 3·7	6	0·81	+0·11	15	26
	Manchester	45	21	42·9	30·1	36·5	− 5·5	4	1·01	+0·20	*	*
	Liverpool Obsr (Bidston)	52	33	46·0	36·9	41·5	− 1·6	5	0·75	+0·19	*	*
	Llandudno ℳ	53	32	47·8	36·9	42·4	− 2·3	4	0·53	−0·27	12	20
	Holyhead	53	35	48·4	38·6	43·5	− 2·1	5	1·73	+1·02	*	*
8. ENGLAND, S.W.	Pembroke	54	36	50·9	40·9	45·9	+ 0·9	5	1·21	+0·31	22	37
	Arlington (N. Devon)	52	27	48·3	33·1	40·7	− 1·8	6	2·79	?	*	*
	Cullompton ℳ	53	23	49·4	30·4	39·9	− 3·6	6	1·11	?	24	39
	Falmouth	54	38	51·2	42·0	46·6	+ 0·7	5	1·25	+0·05	24	39
	Plymouth	54	33	51·0	35·8	43·4	− 1·9	5	0·96	+0·17	20	32
	Prawle Point	54	36	51·6	38·9	45·3	− 0·1	5	0·46	?	*	*
9. IRELAND, N.	Londonderry	53	24	47·6	31·6	39·6	− 2·7	5	1·83	+0·99	*	*
	Mullaghmore	53	36	48·0	40·0	44·0	+ 1·0	5	1·80	?	*	*
	Markree Castle	53	25	47·6	32·8	40·2	− 2·0	6	0·98	?	25	43
	Brookeborough	50	23	46·0	31·6	38·8	− 2·5	5	1·20	?	*	*
	Armagh	50	22	45·1	31·0	38·1	− 3·9	6	1·15	+0·55	14	24
	Donaghadee	49	27	45·3	32·6	39·0	− 4·0	5	0·87	?	*	*
10. IRELAND, S.	Dublin	56	29	47·2	34·8	41·0	− 2·5	4	1·15	+0·51	26	44
	Parsonstown	53	27	48·3	35·0	41·7	− 0·3	4	1·04	+0·44	26	44
	Roche's Point	56	39	53·1	42·1	47·6	+ 2·2	6	1·06	−0·09	*	*
	Valencia	57	41	54·1	44·9	49·5	+ 2·4	6	1·37	+0·24	16	27
	Foynes	53	31	51·0	39·4	45·2	+ 2·2	6	1·13	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 47.] WEEK ENDING MONDAY, NOVEMBER 26, 1883. [*Price 2d.*

[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861–80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866–75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	51	30	44	35	40	0 (average).	5	6	1 more.	14	27
	2. ENGLAND, N.E.	53	32	46	37	42	2 above.	5	3	3 less.	22	41
	3. ENGLAND, E.	57	30	48	37	43	2 above.	7	7	1 more.	15	26
	4. MID. COUNTIES	55	31	48	37	43	3 above.	6	7	2 more.	21	36
	5. ENGLAND, S.	58	32	51	41	46	4 above.	7	16	10 more.	17	28
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	51	34	46	39	43	2 above.	7	25	11 more.	17	31
	7. ENGLAND, N.W.	55	33	48	40	44	2 above.	6	9	2 more.	16	28
	8. ENGLAND, S.W.	55	35	51	42	46	3 above.	7	20	10 more.	21	35
	9. IRELAND, N.	50	33	46	37	41	1 below.	7	14	7 more.	19	34
	10. IRELAND, S.	52	33	48	39	44	0 (average).	6	17	8 more.	18	32

General Remarks.

Weather during this period has been very changeable and unsettled, intervals of clear sky having alternated with frequent, and in some places heavy, falls of rain, hail, or sleet. In several parts of the Kingdom thunderstorms have been experienced. The close of the week was marked by an unusually brilliant appearance of the sky at the time of sunset.

Temperature has been about equal to, or slightly below, the mean over Ireland and in the E. of Scotland, but above it elsewhere; the excess in "England, S." being as great as 4°. The maxima were generally recorded on the 25th, and varied from 50° in "Ireland, N." and 51 in "Scotland", to 57 in "England, E." and 58° in "England, S." The minima, which were registered at most stations on the 23rd, ranged from 30° in "Scotland, E." and "England, E.", to 35° in "England, S.W."

Rainfall has been less than the mean in "England, N.E.", but more in all other districts. In all the more western and southern parts of the country the excess has been considerable.

Bright sunshine shows a slight increase in most places, the percentages of possible duration varying from 26° in "England, E." to 41° in "England, N.E."

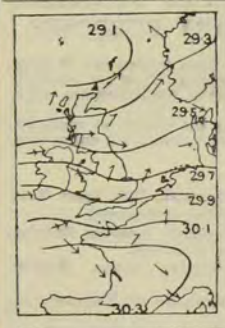
Depressions observed.—The barometer in all the more northern parts of our area has been influenced by several large and important depressions which have travelled in an easterly or north-easterly direction off our extreme northern coasts, while some small subsidiary disturbances have passed eastwards over the United Kingdom and the North Sea. In the S. of France, pressure has been comparatively high and steady. Southerly to south-westerly and westerly winds have consequently prevailed over our Islands, and, though generally moderate to fresh, have occasionally risen to the force of a gale.

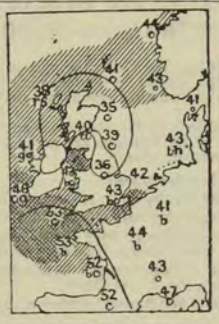
R 9878. 100 & 470.—11/83. Wt. 32. E. & S.

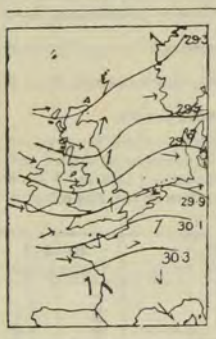
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending November 26, 1883.

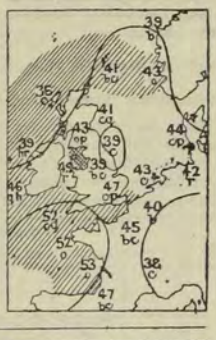
Synoptic Weather Charts.—8 a.m.

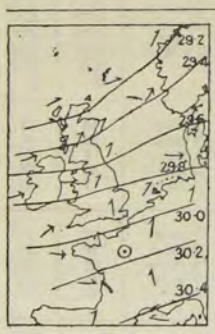
BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

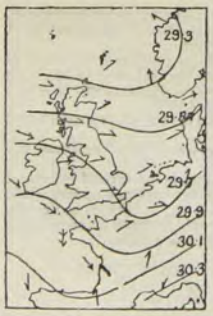


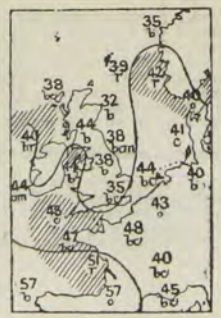












Weather during the 24 hours succeeding the date of the Charts.

Tuesday, November 20.

Weather changeable and showery generally, with a thunderstorm at Ardrossan. Sleet falling in the N., and hail in the W. Lightning seen at Mullaghmore in evening, and an aurora at Wick.

Temperature fallen a little at all but our south-western and southern stations; readings ranging from 53° at Scilly to 35° at Wick, Nairn, and Aberdeen.

Wind moderate south-easterly or southerly in Sweden and the N. of Norway, but fresh south-westerly on our N. and E. coasts, and strong to a gale from W. in the W. and S.

Sea rough or high on all but our E. coasts.

Barometer rising at our south-western and the French stations, falling elsewhere. Area of high pressure lying over the Bay of Biscay, with large depression off the N. of Scotland and small subsidiary disturbance crossing Ireland and England. Rise becoming general later.

Wednesday, November 21.

Weather remaining changeable and showery, with hail in the W. and sleet at Stornoway. Lightning occurring in evening in the N. of Ireland, and thunder at Nairn.

Temperature risen a little; readings ranging from 52° at Scilly to 36° at Stornoway.

Wind strong westerly in W. and S., moderate or fresh south-westerly in E. Veering to W. generally later.

Sea rough on all but our E. coasts.

Barometer rising a little on eastern shores of North Sea, but falling in most parts of our Islands and France. General distribution of pressure very similar to that of previous day, but further subsidiary disturbances crossing our Islands in an easterly direction.

Thursday, November 22.

Weather generally fair in morning, but showers falling later in nearly all places, and a thunderstorm occurring at Scilly. Brilliant aurora seen in the N. of Scotland at night.

Temperature fallen slightly; readings ranging from 51° at Scilly to 33° at Stornoway.

Wind westerly in W. and S.W., but south-westerly elsewhere; fresh or strong in force in many places. Blowing slight gale in Channel later.

Sea rough on most parts of our western and southern coasts as well as at Sumburgh Head.

Barometer rising on eastern shores of North Sea; falling elsewhere. General distribution of pressure little changed, and small subsidiary disturbances still crossing our Islands from the westward.

Friday, November 23.

Weather fair on the whole, but showers falling locally. Steady rain setting in on our W. coasts later.

Temperature fallen several degrees; readings ranging from 48° at Scilly to 32° at Aberdeen.

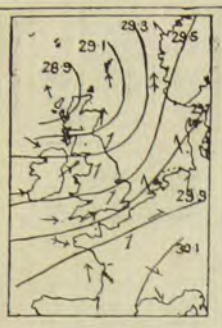
Wind north-westerly on our southern coasts, but westerly in the N. and southerly in Scandinavia. Subsequently backing to S.W. in W. and increasing considerably.

Sea rather rough in W. and S.W.

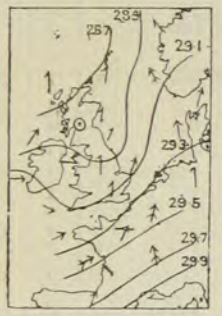
Barometer falling at most of the Continental stations; rising elsewhere. Brisk fall setting in on our western coasts later, and rather deep depression skirting the W. of Ireland and Scotland.

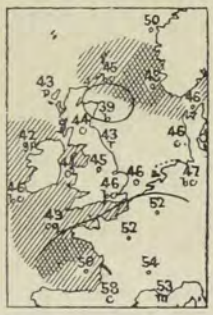
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.



CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Saturday, November 24.

Weather fair in the W., unsettled and showery elsewhere. Heavy rain falling in W. later, but weather improving in E.

Temperature risen generally—several degrees in S.E.; readings ranging from 51° at Scilly to 40° at Nairn and Parsonstown.

Wind strong westerly in W. and S.W., but fresh south-westerly or southerly elsewhere. Subsequently backing to S.W. in W. and increasing to gale.

Sea rough on our western and southern coasts and at Sumburgh Head.

Barometer rising on eastern shores of North Sea, but falling over our Islands and France. Highest pressure still reported from S. of France with deep depression off the N.W. of Scotland. Fresh disturbance appearing off W. of Ireland in latter part of day.

Sunday, November 25.

Weather dull and rainy over France and the S.E. of England, showery elsewhere. Some improvement taking place in S. later, but lightning occurring in evening.

Temperature risen generally, readings varying from 54° at Hurst Castle, Oxford, and Jersey to 43° at Parsonstown. Maximum as high as 58° at Hurst Castle, 57° at Cambridge, and 55° in London and at Oxford.

Wind south-westerly or southerly generally; strong to a gale on all but our N.W. coasts, where moderate. Gale subsiding later.

Sea rough on almost all coasts.

Barometer falling at all but the Swedish stations. Pressure still highest in S. of France, but relatively high over Sweden, with deep depression lying off the Hebrides. Fall continuing all day, and 6 p.m. readings below 29 ins. at all but our south-eastern stations.

Monday, November 26.

Weather fair in most places, but showers falling locally. Solar halo observed in London at 2 p.m.

Temperature risen at most of the continental stations, fallen elsewhere; readings ranging from 51° at Dover to 36° at Nairn.

Wind westerly in W. and S.W., but south-westerly or southerly in E. and N.; strong on our southern coasts, but moderate or fresh elsewhere.

Sea rough in the W. and S. as well as in the extreme N.

Barometer rising most parts of our Islands, but falling on the continent. Distribution of pressure similar to that of previous day, but gradients less steep. Rise becoming general later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	49	35	45·4	37·6	41·5	+0·5	7	1·38	+0·75	*	*
	Stornoway	46	32	43·7	34·9	39·3	−1·5	7	2·66	+1·66	8	16
	Wick	48	33	43·3	35·1	39·2	−1·0	5	0·63	−0·15	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	43	52·4	46·4	49·4	+1·4	7	1·21	+0·31	*	*
	Jersey (Noirmont)	55	43	52·0	46·0	49·0	+4·0	7	2·29	+1·58	15	25

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	47	34	42·4	35·1	38·8	− 0·6	4	0·39	−0·12	*	*
	Aberdeen	50	30	44·0	33·9	39·0	− 0·1	4	0·49	−0·21	14	27
	Leith	51	34	46·0	35·9	41·0	+ 1·3	7	0·94	+0·47	*	*
2. ENGLAND, N.E.	Alnwick Castle	49	34	44·4	37·1	40·8	+ 1·2	6	0·53	?	*	*
	Shields	52	32	46·4	36·0	41·2	+ 0·4	6	0·23	−0·42	*	*
	Durham	52	35	45·9	36·7	41·3	+ 1·6	5	0·25	−0·45	27	50
	Scarborough ℳ	53	36	46·2	37·6	41·9	+ 1·6	4	0·14	−0·67	*	*
	York	53	35	48·1	37·4	42·8	+ 2·7	6	0·23	−0·32	17	31
	Spurn Head	52	35	47·3	38·3	42·8	+ 2·0	5	0·23	?	*	*
3. ENGLAND, E.	Hillington ℳ	55	30	47·8	36·3	42·1	+ 1·9	6	0·41	−0·16	12	21
	Yarmouth	52	33	47·0	37·9	42·5	+ 1·5	7	0·73	−0·05	*	*
	Geldeston	53	32	48·8	37·8	43·3	+ 2·3	7	0·74	+0·14	15	26
	Cambridge	57	34	49·0	37·1	43·1	+ 2·9	6	0·41	+0·01	18	31
	Rothamsted	55	32	49·6	36·8	43·2	+ 3·4	7	1·14	+0·70	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	53	32	48·6	36·0	42·3	+ 1·3	5	0·22	−0·29	*	*
	Loughborough	54	33	48·9	38·0	43·5	+ 3·6	6	0·34	−0·14	*	*
	Leicester	55	33	48·3	36·4	42·4	+ 3·2	6	0·45	−0·03	19	34
	Birmingham (Oscott)	52	32	47·9	36·6	42·3	+ 3·4	6	0·35	−0·19	*	*
	Cheadle ℳ	51	32	47·0	35·2	41·1	+ 1·9	5	0·23	?	*	*
	Churchstoke ℳ	52	32	47·1	36·8	42·0	+ 2·7	7	1·54	?	19	34
	Hereford ℳ	54	31	50·3	37·6	44·0	+ 3·9	6	0·86	+0·24	*	*
	Cirencester	53	32	48·3	36·1	42·2	+ 3·4	6	1·48	+0·88	21	36
	Oxford	55	34	49·6	39·7	44·7	+ 4·3	6	1·02	+0·62	22	38
5. ENGLAND, S.	London†	55	35	50·7	40·1	45·4	+ 4·4	6	1·12	+0·69	12	20
	Marlborough ℳ	52	32	48·8	37·3	43·1	+ 3·1	7	1·33	+0·73	19	32
	Strathfield Turgiss ℳ	56	33	50·9	38·6	44·8	+ 4·3	6	1·24	+0·78	*	*
	Dover	53	37	50·3	41·9	46·1	+ 3·1	7	1·78	+0·87	*	*
	Hastings (St. Leonard's)	54	37	51·2	42·2	46·7	+ 3·7	7	2·12	+1·51	13	22
	Southampton	55	35	52·2	41·1	46·7	+ 4·9	6	1·81	?	21	36
	Hurst Castle	58	35	52·6	42·7	47·7	+ 4·2	7	1·49	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	47	35	45·0	38·3	41·7	+ 0·9	7	4·90	?	*	*
	Glasgow	49	34	43·4	37·4	40·4	+ 0·6	7	2·28	+1·39	7	13
	Ardrossan	49	35	46·7	39·1	42·9	+ 2·9	7	2·67	+1·78	*	*
	Silloth (Cumberland)	51	36	46·1	40·3	43·2	+ 2·2	7	1·60	+1·00	18	33
	Douglas (Isle of Man)	51	36	47·2	41·1	44·2	+ 2·4	5	1·24	+0·24	26	47
7. ENGLAND, N.W.	Barrow-in-Furness	49	40	47·6	41·7	44·7	+ 2·3	6	1·54	?	*	*
	Stonyhurst	50	36	45·8	38·6	42·2	+ 2·1	7	0·84	−0·28	12	22
	Blackpool ℳ	50	39	48·0	40·8	44·4	+ 1·9	6	0·91	+0·21	18	33
	Manchester	53	33	46·5	36·2	41·4	+ 0·4	6	0·60	−0·10	*	*
	Liverpool Obsy (Bidston)	52	38	48·3	40·6	44·5	+ 2·5	7	0·51	+0·01	*	*
	Llandudno ℳ	55	40	49·5	42·0	45·8	+ 2·4	6	0·73	−0·07	17	30
	Holyhead	52	38	49·1	40·4	44·8	− 0·1	4	1·41	+0·75	*	*
8. ENGLAND, S.W.	Pembroke	53	37	51·0	43·3	47·2	+ 3·1	7	1·10	+0·21	21	36
	Arlington (N. Devon)	52	36	48·6	39·1	43·9	+ 2·4	7	3·21	?	*	*
	Cullompton ℳ	54	36	50·7	39·8	45·3	+ 2·8	7	1·37	?	18	31
	Falmouth	54	40	51·1	43·9	47·5	+ 2·5	7	2·76	+1·56	25	42
	Plymouth	55	37	52·6	42·2	47·4	+ 3·4	7	1·36	+0·56	18	30
	Prawle Point	54	35	51·0	41·6	46·3	+ 2·2	7	1·89	?	*	*
9. IRELAND, N.	Londonderry	50	35	47·5	36·8	42·2	+ 0·7	7	1·71	+0·91	*	*
	Mullaghmore	48	35	46·0	38·9	42·5	0·0	7	2·22	?	*	*
	Markree Castle	48	34	45·4	36·1	40·8	− 0·7	7	1·19	?	19	35
	Brookeborough	48	33	44·1	36·0	40·1	− 0·4	7	1·49	?	*	*
	Armagh	49	34	44·5	35·9	40·2	− 1·2	7	0·94	+0·34	18	33
	Donaghadee	49	33	45·3	35·6	40·5	− 1·5	4	0·84	?	*	*
10. IRELAND, S.	Dublin	52	35	46·9	39·0	43·0	+ 0·4	5	0·41	−0·19	29	52
	Parsonstown	50	33	45·4	35·1	40·3	− 0·7	7	1·15	+0·54	13	23
	Roche's Point	52	35	49·7	38·3	44·0	− 0·3	6	2·18	+1·00	*	*
	Valencia	52	38	50·3	41·3	45·8	− 0·7	7	2·47	+1·33	13	22
	Foynes	51	35	48·6	39·1	43·9	+ 1·3	7	2·13	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 48.] WEEK ENDING MONDAY, DECEMBER 3, 1883. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. †Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	58	34	49	41	45	6 above.	3	4	1 less.	7	14
	2. ENGLAND, N.E.	58	33	49	41	45	6 above.	4	5	3 less.	6	11
	3. ENGLAND, E.	57	31	49	38	44	4 above.	4	7	1 more.	12	22
	4. MID. COUNTIES	58	31	50	39	44	5 above.	4	5	0 (average).	13	24
	5. ENGLAND, S.	58	33	51	40	46	4 above.	3	3	3 less.	11	19
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	56	35	50	44	47	6 above.	6	11	2 less.	6	11
	7. ENGLAND, N.W.	59	35	50	43	47	5 above.	6	9	1 more.	9	16
	8. ENGLAND, S.W.	58	32	53	43	48	5 above.	4	5	5 less.	9	16
	9. IRELAND, N.	58	35	52	42	47	6 above.	7	8	1 more.	3	6
	10. IRELAND, S.	59	33	54	43	49	6 above.	6	6	3 less.	6	11

General Remarks.

Weather, with the exception of a few brief clearances, has been cloudy or dull, with rather frequent falls of rain in most places, and of hail or sleet in the N. and N.E. A brilliant appearance of the sky at the time of sunrise or sunset has again been general.

Temperature has been very high for the season in all districts, the excess over the E. and S. of England being 4°, and elsewhere 5° or 6°. The maxima, which were registered on November 28th, varied from 56° in "Scotland, W." to 58° in most other districts, and 59° in "England, N.W." and "Ireland, S." The minima were recorded at the commencement or towards the end of the period, and ranged from 31° over eastern and central England to 36° in the N. of Ireland. On November 29th the temperature in "Scotland, E." did not fall below 50°.

Rainfall has been slightly more than the mean in "England, E.", "England, N.W.", and "Ireland, N.", and about equal to it in the "Midland Counties", but a little less in all other districts.

Bright sunshine has been very deficient in all places, the percentages of possible duration varying from 24 in the "Midland Counties" and 22 in "England, E.", to only 6 in "Ireland, N."

Depressions observed.—During the earlier part of the period, pressure was highest in the south-eastern part of our area, while depressions continued to travel eastwards or north-eastwards off our extreme northern coasts, but towards the close of the period the highest pressure was transferred to the south-westward of our Islands, and depressions began to move south-eastwards over Scandinavia and Denmark. The wind, which was at first generally moderate or fresh from between S.W. and S., subsequently shifted to the westward or north-westward, and though at first moderate in force, gradually increased, until on the night of December 3rd, it blew a fresh to strong gale on nearly all our coasts.

R 9969. 100 & 470.—12/83. Wt. 32. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending December 3, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, November 27.

Weather fair in most parts of our Islands and France, but rainy in Sweden and also at Valencia. Rain falling later in all western and northern districts.

Temperature fallen at all but our extreme western and northern stations; readings ranging from 50° at Scilly to 36° at Parsonstown.

Wind westerly in extreme N., but south-westerly or southerly elsewhere; moderate in force at all stations excepting Valencia. Fresh southerly and south-westerly gales experienced in W. of Ireland later.

Sea rough on our S.W. coasts, and also in the Bay of Biscay.

Barometer rising generally. Anticyclone lying over the N. of Spain, and large depression off our extreme northern coasts. New disturbance passing along the extreme western coasts later, but barometer continuing to rise in almost all parts of the Kingdom.

Wednesday, November 28.

Weather fine in France, but cloudy or overcast elsewhere, with rain at several of the western and northern stations. Sky subsequently clearing in many parts of our Islands.

Temperature risen several degrees over the United Kingdom, but fallen in France; readings ranging from 56° at Parsonstown and Valencia to 47° at Sumburgh Head and Spurn Head. Maxima very high for time of year, 58° being recorded in many parts of the country.

Wind generally southerly or south-westerly; strong in W. and N. Easterly breezes appearing over Bay of Biscay later.

Sea rough in the extreme W. and S.W.

Barometer rising on all coasts. Anticyclone with readings above 30·5 in. lying over central France, but depressions apparently passing along in a northerly direction some distance to the westward of our Islands.

Thursday, November 29.

Weather cloudy or overcast in Scandinavia, Ireland, and the extreme N. of Scotland, with rain in some places, but generally fine elsewhere. Rain falling later at all western and northern stations.

Temperature fallen generally; readings ranging from 53° at Nairn and Valencia to 42° in London and at Oxford. Maxima still high for time of year, but lower than on previous day.

Wind south-easterly over the Bay of Biscay and English Channel, but south-westerly or southerly elsewhere; strong to a gale on the W. coasts of Ireland and Scotland.

Sea rough in the S.W., W., and N.W.

Barometer rising at all but the Scandinavian and our extreme western stations. Anticyclone still lying over France, with large depression off the N.W. of Norway, and disturbances skirting our western coasts. Fall taking place generally later.

Friday, November 30.

Weather fine in Scotland and France but cloudy elsewhere, with rain on our W. coasts. Heavy rain falling over England in afternoon or evening.

Temperature fallen at all but our southern stations; readings ranging from 54° at Scilly to 41° at Wick and Aberdeen.

Wind south-easterly in the W. of France, but south-westerly or westerly in our Islands and Scandinavia; strong in force over Norway and the S. of Sweden. Subsequently veering to N.W. on all parts of our coasts.

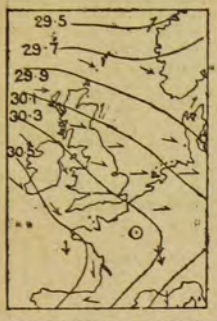
Sea rather rough on the Norwegian coasts and at Scilly, moderate or slight elsewhere.

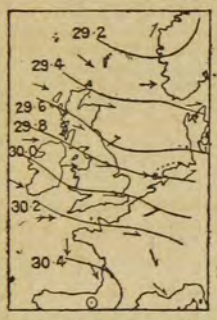
Barometer falling at all but our western, northern, and the French stations. Highest pressure now found in the S. of France, with large depression off the N.W. of Norway and small disturbance at the mouth of St. George's Channel. Both depressions moving eastwards later, and barometer rising at all but the south-eastern stations.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Saturday, December 1.

Weather rainy in the S.E. of England and N.E. of France, but generally fine elsewhere. Improvement taking place in S.E. later. Aurora seen at Wick and Aberdeen in evening.

Temperature fallen in most places; readings ranging from 49° at Scilly to 34° at Parsonstown.

Wind variable over the Netherlands, but north-westerly or westerly elsewhere, and strong in force on our S.E. coasts. Subsequently backing to W. at all western and northern stations.

Sea rather rough on the E. coast of England, as well as at some of the more exposed western stations.

Barometer falling in Denmark, the Netherlands, and E. of France, but rising elsewhere. Pressure highest off our S.W. coasts, and depression noticed in W. on previous day now passing away over Holland. New fall appearing in N. later.

Sunday, December 2.

Weather cloudy in most places, with showers at Stornoway. Rain extending later to most parts of our Islands.

Temperature risen a little over Ireland and the S.W. of England, fallen elsewhere, readings ranging from 49° at Scilly to 35° at Aberdeen.

Wind westerly or north-westerly in our Islands, but northerly in France; strong in force in the extreme N. of Scotland.

Sea rather rough at Sumburgh Head and Mullaghmore, moderate to smooth elsewhere.

Barometer falling at all but our southern and the continental stations. High pressure area still lying off our S.W. coasts, and large depression approaching the W. of Norway. Fall continuing all day.

Monday, December 3.

Weather cloudy or overcast generally with rain in many places. Snow or sleet falling in Scotland later, and lightning occurring over the E. of England in evening.

Temperature risen in most places; readings ranging from 53° at Valencia to 36° in the Shetlands. Brisk fall taking place over Scotland during latter part of day.

Wind generally westerly; strong in force over the S.W. of England, moderate or fresh elsewhere. Subsequently veering to N.W. on all coasts and increasing to gale.

Sea rather rough W. and SW.

Barometer falling at all stations. High pressure area now found over the N. of Spain, but large depression still lying off the W. of Norway. Disturbance moving south-eastwards later, and barometer continuing to fall generally.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	53	32	46·6	38·3	42·5	+1·9	7	0·90	+0·23	•	•
	Stornoway	52	38	47·7	39·9	43·8	+3·6	7	1·83	+0·73	4	8
	Wick	53	35	46·1	38·7	42·4	+2·6	6	0·90	+0·12	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	56	46	53·3	47·9	50·6	+3·0	5	0·26	−0·64	•	•
	Jersey (Noirmont)	54	41	50·4	43·6	47·0	+2·6	3	0·34	−0·36	18	31

The above observations made in "Scotland, N." and the "Channel Isl nds" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	56	36	48·6	41·6	45·1	+ 6·2	4	0·50	0·00	*	*
	Aberdeen	56	34	48·4	39·0	43·7	+ 5·2	4	0·66	−0·04	7	14
	Leith	58	36	50·6	41·4	46·0	+ 7·0	2	0·04	−0·38	*	*
2. ENGLAND, N.E.	Alnwick Castle	55	33	49·1	40·7	44·9	+ 6·0	3	0·34	?	*	*
	Shields	58	36	50·6	42·0	46·3	+ 6·2	3	0·13	−0·56	*	*
	Durham	57	34	49·9	40·3	45·1	+ 6·1	4	0·11	−0·64	7	13
	Scarborough ℔	55	38	48·5	41·0	44·8	+ 5·3	4	0·90	+0·10	*	*
	York	56	36	49·7	39·9	44·8	+ 5·3	5	0·51	−0·07	4	8
	Spurn Head	53	38	47·6	40·0	43·8	+ 3·8	3	0·73	?	*	*
3. ENGLAND, E.	Hillington ℔	54	34	48·0	38·3	43·2	+ 3·9	4	0·98	+0·38	7	13
	Yarmouth	56	35	48·9	38·0	43·5	+ 3·5	4	0·76	−0·04	*	*
	Geldeston	53	34	49·2	38·7	44·0	+ 4·0	4	0·83	+0·23	14	25
	Cambridge	57	34	50·1	36·9	43·5	+ 4·1	3	0·57	+0·15	15	27
	Rothamsted	56	31	49·5	37·6	43·6	+ 4·6	6	0·38	−0·07	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	56	35	49·0	38·7	43·9	+ 3·7	3	0·61	+0·07	*	*
	Loughborough	57	36	50·0	39·7	44·9	+ 5·9	3	0·50	+0·01	*	*
	Leicester	56	36	49·4	39·3	44·4	+ 5·9	4	0·60	+0·21	12	22
	Birmingham (Oscott)	56	35	49·0	37·6	43·3	+ 5·2	5	0·60	+0·03	*	*
	Cheadle ℔	55	34	47·5	39·1	43·3	+ 4·7	5	0·76	?	*	*
	Churchstoke ℔	57	37	51·1	40·1	45·6	+ 6·6	3	0·66	?	13	24
	Hereford ℔	58	35	52·1	39·0	45·6	+ 6·2	3	0·36	−0·28	*	*
	Cirencester	56	31	50·3	35·6	43·0	+ 3·9	3	0·38	−0·24	14	25
	Oxford	57	37	50·9	38·4	44·7	+ 4·7	3	0·29	−0·11	13	23
5. ENGLAND, S.	London†	58	36	51·1	38·9	45·0	+ 4·7	4	0·20	−0·25	7	12
	Marlborough ℔	54	34	49·0	38·5	43·8	+ 4·4	2	0·27	−0·33	7	12
	Strathfield Turgiss ℔	57	33	51·3	39·2	45·3	+ 5·3	3	0·17	−0·29	*	*
	Dover	52	39	49·7	40·9	45·3	+ 2·8	4	0·74	−0·16	*	*
	Hastings (St. Leonard's)	53	36	50·8	42·0	46·4	+ 4·0	5	0·26	−0·34	18	32
	Southampton	57	36	51·7	39·8	45·8	+ 5·3	2	0·15	?	11	19
	Hurst Castle	55	36	52·4	41·9	47·2	+ 4·4	4	0·27	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	56	40	?50·4	43·5	?47·0	?+ 6·6	7	3·02	?	*	*
	Glasgow	54	36	49·7	42·0	45·9	+ 6·4	7	0·47	−0·43	3	6
	Ardrossan	52	40	49·1	43·6	46·4	+ 6·9	5	0·59	−0·31	*	*
	Silloth (Cumberland)	54	35	48·9	43·5	46·2	+ 6·1	6	0·31	−0·29	8	15
	Douglas (Isle of Man)	53	41	50·5	44·6	47·6	+ 6·1	7	1·13	+0·13	7	13
7. ENGLAND, N.W.	Barrow-in-Furness	53	40	49·4	42·7	46·1	+ 4·1	5	0·56	?	*	*
	Stonyhurst	56	38	49·0	41·3	45·2	+ 5·8	6	1·03	−0·08	10	19
	Blackpool ℔	55	40	49·7	42·5	46·1	+ 4·1	7	0·62	−0·08	9	17
	Manchester	56	35	48·7	40·0	44·4	+ 4·2	5	1·01	+0·21	*	*
	Liverpool Obsy (Bidston)	58	41	51·3	42·9	47·1	+ 6·0	6	0·70	+0·24	*	*
	Llandudno ℔	59	43	53·0	44·6	48·8	+ 6·3	5	0·92	+0·12	7	13
	Holyhead	53	41	51·4	43·6	47·5	+ 3·2	6	1·30	+0·58	*	*
8. ENGLAND, S.W.	Pembroke	54	44	52·4	46·9	49·7	+ 5·8	5	0·65	−0·23	5	9
	Arlington (N. Devon)	56	37	51·4	40·9	46·2	+ 5·1	4	0·97	?	*	*
	Cullompton ℔	58	32	52·6	37·4	45·5	+ 3·0	4	0·23	?	8	14
	Falmouth	56	43	52·7	46·6	49·7	+ 4·8	4	0·35	−0·75	11	19
	Plymouth	56	35	53·4	40·9	47·2	+ 3·6	4	0·22	−0·58	12	21
	Prawle Point	56	37	52·3	42·9	47·6	+ 4·0	3	0·29	?	*	*
9. IRELAND, N.	Londonderry	58	37	54·5	43·1	48·8	+ 7·8	7	0·97	+0·16	*	*
	Mullaghmore	57	40	52·0	43·1	47·6	+ 5·6	7	1·13	?	*	*
	Markree Castle	56	36	51·4	42·4	48·9	+ 5·9	7	0·89	?	2	4
	Brookeborough	56	35	51·0	41·5	46·3	+ 6·3	7	0·76	?	*	*
	Armagh	56	36	52·2	41·8	47·0	+ 6·0	7	0·59	−0·01	4	8
	Donaghadee	54	36	50·3	41·0	45·7	+ 3·8	5	0·70	?	*	*
10. IRELAND, S.	Dublin	59	38	52·7	44·1	48·4	+ 6·4	5	0·42	−0·17	7	13
	Parsonstown	57	33	52·3	38·6	45·5	+ 5·0	6	0·44	−0·17	6	12
	Roche's Point	55	39	52·7	43·1	47·9	+ 4·3	4	0·82	−0·37	*	*
	Valencia	58	39	54·3	45·1	49·7	+ 3·7	6	0·84	−0·36	5	9
	Foynes	59	39	57·2	45·9	51·6	+ 9·4	7	0·60	?	*	*

Stations marked ℔ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 49.] WEEK ENDING MONDAY, DECEMBER 10, 1883. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861–80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866–75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	48	25	43	34	38	0 (average).	2	2	4 less.	14	30
	2. ENGLAND, N.E.	47	28	41	33	37	2 below.	4	5	2 less.	8	15
	3. ENGLAND, E.	48	27	40	32	36	3 below.	5	10	4 more.	8	16
	4. MID. COUNTIES	50	23	40	32	36	3 below.	3	4	2 less.	13	21
	5. ENGLAND, S.	53	25	42	32	37	4 below.	3	5	2 less.	14	26
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	49	23	43	33	38	2 below.	4	13	0 (average).	11	21
	7. ENGLAND, N.W.	49	25	42	34	39	3 below.	3	9	1 more.	10	18
	8. ENGLAND, S.W.	52	22	44	34	39	4 below.	3	6	3 less.	19	34
	9. IRELAND, N.	55	19	44	32	38	3 below.	5	7	0 (average).	16	30
	10. IRELAND, S.	53	21	46	34	40	3 below.	3	7	2 less.	16	31

General Remarks.

Weather has been rather cloudy or dull, with somewhat frequent, but in most places slight, falls of rain, hail, sleet, or snow. The brilliant appearance of the sky at the time of sunrise and sunset noticed of late has again been repeated, though generally in a less striking degree.

Temperature has been about equal to the mean in "Scotland, E.", but below in all other districts; the deficit in the S. and S.W. of England being as great as 4°. The maxima, which were registered at the commencement or close of the period, varied from 47° in "England, N.E." to 55° in "Ireland, N." During the 6th and 7th the thermometer in some parts of England did not rise above 35° or 36°, while the maximum on the 7th at Armagh was no higher than 33°. The minima were recorded either on the 6th, 7th, or 8th, and were low in all districts. In "Ireland, N." temperature fell to 19°, in "Ireland, S." to 21°, in "England, S.W." to 22°, and elsewhere to between 23° and 28°.

Rainfall has been slightly less than the mean in most districts, but about equal to it in "Scotland, W." and "Ireland, N.", and a little more in "England, E." and "England, N.W."

Bright sunshine has been more prevalent than during last week at most stations, the percentages of possible duration varying from 15 in "England, N.E." and 16 in "England, E." to 34 in "England, S.W."

Depressions observed.—During the first part of this period, depressions continued to move in a southerly direction over the North Sea, Denmark, and N. Germany, occasioning fresh or strong north-westerly to north-easterly winds on our S. and S.E. coasts, and moderate northerly breezes over our Islands generally. By the morning of the 8th, however, the barometer was falling briskly at our western and northern stations, while the area of highest pressure, hitherto shown over Ireland, was becoming established over France. From this date until the end of the period some important depressions skirted the Irish and Scotch coasts, causing southerly to south-westerly winds, gradually increasing in force, at all our stations.

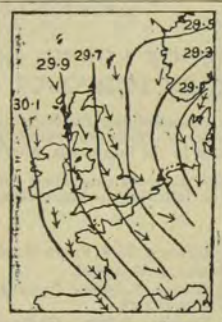
10084. 100 & 470.—12/83. Wt. 32. E. & S.

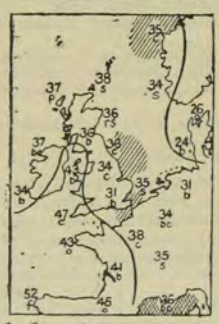
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending December 10, 1883.

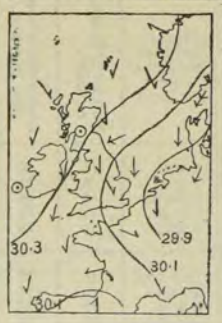
Synoptic Weather Charts.—8 a.m.

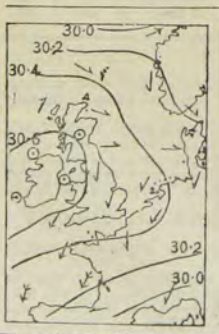
BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Tuesday, December 4.

Weather fair in the W. and S. of our Islands, but unsettled and showery at the northern, eastern, and Continental stations, with snow or sleet in many places. Thunder and lightning occurring in E. of England later.

Temperature fallen generally; readings ranging from 48° at Scilly to 36° at Shields, York, Parsonstown, and Yarmouth. Frost registered in most places at night.

Wind northerly or north-westerly; strong in force at all but our northern stations, with gales in many places. Subsequently moderating at most stations.

Sea rough on almost all coasts.

Barometer rising at all but our south-eastern and the French stations. Readings highest off our western coasts, and large depression noticed off W. of Norway on previous day now shown over the Baltic. Rise taking place generally later.

Wednesday, December 5.

Weather fair over France and the W. and S. of our Islands; cloudy or overcast elsewhere, with snow showers in many places.

Temperature fallen a little in our Islands and quickly at the Continental stations; readings ranging from 47° at Scilly to 31° in London. Maxima below 40° at many of the northern and eastern stations.

Wind light or moderate northerly on nearly all coasts, but fresh at some of the more exposed eastern stations.

Sea rough on our E. coast, moderate or slight elsewhere.

Barometer rising generally. Readings still highest off our western coasts and lowest to the eastward of our Islands, but depression noticed over Baltic on previous day quite disappeared. Slight fall taking place on E. coasts later.

Thursday, December 6.

Weather fine at all but the eastern and south-eastern stations, where snow showers still reported.

Temperature fallen slightly; readings ranging from 45° at Scilly to 31° at Hurst Castle and 28° at Parsonstown. Maxima over south-eastern England varying between 35° and 39°.

Wind northerly or north-easterly, strong to a gale in force on our E. and S.E. coasts. Gale extending over greater part of Channel later.

Sea rough on our E. and S.E. coasts.

Barometer falling a little in France and the S. of our Islands, rising elsewhere. Area of highest pressure lying off our W. and N.W. coasts, and depression shown over the Netherlands. Latter subsequently moving away in a southerly direction.

Friday, December 7.

Weather fair in our Islands and France, but very cloudy in Scandinavia, with rain in W. of Norway.

Temperature fallen a little over the United Kingdom, and quickly in France, but risen several degrees on eastern shores of North Sea; readings ranging from 40° at Scilly to 22° at Parsonstown.

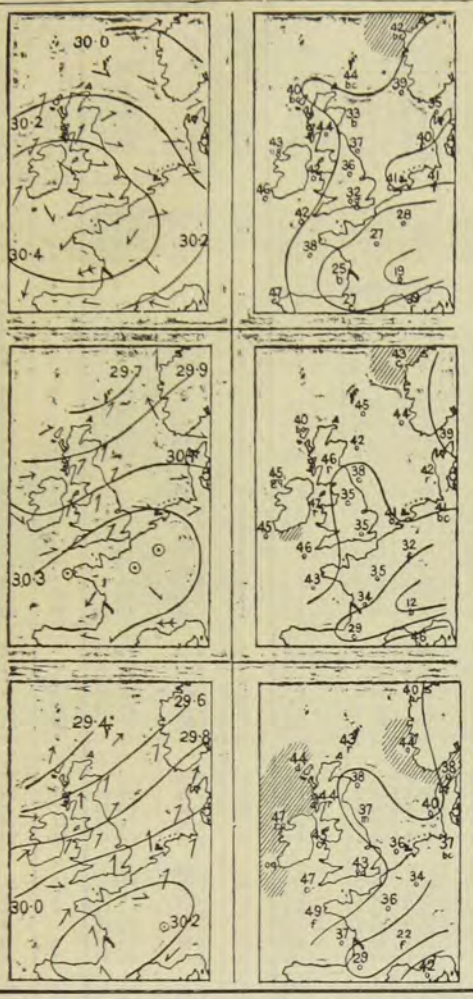
Wind moderate westerly or north-westerly in N., but fresh or strong north-easterly in S., with calms over Ireland. Backing to S.W. in N. later.

Sea rather rough on our E. and S. coasts.

Barometer falling over Scandinavia and the N. of Scotland, rising elsewhere. High pressure area, with readings exceeding 30·6 ins., covering Ireland and Wales; readings relatively low over the N. of Scandinavia and S. of France. Fall extending over northern parts of England and Ireland later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, December 8.

Weather cloudy or overcast generally, with fog and mist over central England. A little rain falling in W. and N.W. later.

Temperature risen generally—most N.; readings ranging from 46° at Valencia to 32° at Aberdeen and 31° at Hurst Castle. Maxima in E. and S.E. varying between 35° and 39°.

Wind south-westerly or westerly at all the more northern stations, but northerly or north-easterly in the S.; light or moderate in force generally. Westerly winds extending to southern stations later.

Sea moderate to smooth.

Barometer falling at all but the French stations. Anticyclone of previous day now shown over our S.W. coasts and the N.W. of France. Depression skirting the west of Ireland and Scotland later.

Sunday, December 9.

Weather cloudy or overcast at nearly all stations, with rain on several parts of our western coasts. Rain falling generally later, and a little sleet occurring over the S.E. of England.

Temperature risen generally—most in W.; readings ranging from 49° at Roche's Point to 34° at several of the south-eastern stations.

Wind easterly in the S. of France, but westerly or south-westerly elsewhere; moderate or fresh in force in most places.

Sea moderate to smooth generally.

Barometer falling at all stations; high pressure area now over France, and large depression being off the N. of Scotland. Latter subsequently moving north-eastwards and barometer rising a little in N.

Monday, December 10.

Weather dull generally, with rain in many places.

Temperature rising quickly in S.E., and slightly elsewhere; readings ranging from 48° at Roche's Point and Hurst Castle to 37° at Shields and York.

Wind south-westerly or westerly, and moderate or fresh in force at most stations. Increasing to strong breeze in W. and S. later.

Sea rough on some parts of our western and extreme northern coasts.

Barometer falling generally. Highest pressure now lying over the S. of France, with new and rather deep depression off the N.W. of Scotland. Fall continuing all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟹ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	47	31	43·6	35·1	39·4	−1·0	7	0·70	−0·01	•	•
	Stornoway	47	29	43·6	33·6	38·6	−1·3	7	1·00	−0·21	11	24
	Wick	46	30	41·9	32·3	37·1	−2·4	4	0·22	−0·51	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	51	35	47·1	41·6	44·4	−2·8	3	0·26	−0·64	•	•
	Jersey (Noirmont)	52	30	44·9	38·0	41·5	−2·5	2	0·50	−0·21	18	32

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	47	32	42·7	34·9	38·8	+ 0·3	3	0·18	−0·30	*	*
	Aberdeen	45	25	41·3	31·4	36·4	− 1·6	3	0·23	−0·47	14	30
	Leith	48	30	44·1	34·7	39·4	+ 0·9	1	0·09	−0·31	*	*
2. ENGLAND, N.E.	Alnwick Castle	46	32	41·1	34·1	37·6	− 0·8	3	0·62	?	*	*
	Shields	47	31	41·1	33·1	37·1	− 2·4	3	0·76	+0·11	*	*
	Durham											
	Scarborough ⚓	45	34	42·2	34·7	38·5	− 0·4	4	0·70	−0·08	*	*
	York	46	28	40·9	32·4	36·7	− 2·3	5	0·32	−0·28	8	15
	Spurn Head	46	30	41·3	33·1	37·2	− 1·9	3	0·77	?	*	*
3. ENGLAND, E.	Hillington ⚓	46	27	39·5	32·1	35·8	− 2·8	6	1·07	+0·46	3	6
	Yarmouth	46	30	38·9	31·9	35·4	− 3·9	5	1·73	+0·94	*	*
	Geldeston	47	29	40·7	31·7	36·2	− 3·4	5	1·28	+0·68	8	15
	Cambridge	48	27	40·0	30·6	35·3	− 3·7	5	0·36	−0·12	14	26
	Rothamsted	48	28	39·5	31·0	35·3	− 3·1	5	0·60	+0·10	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	46	30	41·6	33·1	37·4	− 2·3	3	0·19	−0·36	*	*
	Loughborough	47	29	40·4	32·1	36·3	− 2·2	3	0·27	−0·23	*	*
	Leicester	47	27	40·3	32·4	36·4	− 1·6	4	0·28	−0·22	6	11
	Birmingham (Oscott)	46	27	38·9	31·0	35·0	− 3·0	3	0·38	−0·22	*	*
	Cheadle ⚓	44	26	38·3	30·8	34·6	− 3·7	3	0·62	?	*	*
	Churchstoke ⚓	48	23	41·9	30·7	36·3	− 2·4	2	0·74	?	13	25
	Hereford ⚓	50	29	42·0	32·1	37·1	− 1·9	4	0·23	−0·44	*	*
	Cirencester	49	25	39·6	30·3	35·0	− 4·0	2	0·29	−0·36	16	28
	Oxford	49	27	40·9	31·9	36·4	− 3·1	3	0·21	−0·19	16	28
5. ENGLAND, S.	London†	49	30	41·0	32·6	36·8	− 2·9	2	0·42	−0·03	8	15
	Marlborough ⚓	50	25	39·5	29·8	34·7	− 4·2	3	0·30	−0·35	17	31
	Strathfield Turgiss ⚓	53	26	40·6	31·0	35·8	− 3·7	3	0·25	−0·23	*	*
	Dover	49	30	40·9	33·1	37·0	− 5·0	3	0·38	−0·47	*	*
	Hastings (St. Leonard's)	51	28	41·3	32·7	37·0	− 4·9	5	0·96	+0·36	13	24
	Southampton	52	25	41·5	31·4	36·5	− 3·4	2	0·43	?	19	33
	Hurst Castle	50	26	45·6	31·1	38·4	− 3·8	2	0·48	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	49	26	43·9	34·1	39·0	− 1·2	5	3·12	?	*	*
	Glasgow	45	28	42·0	33·4	37·7	− 1·6	4	0·51	−0·47	7	15
	Ardrossan	47	27	43·9	35·3	39·6	+ 0·5	4	0·76	−0·13	*	*
	Silloth (Cumberland)	47	23	41·3	32·6	37·0	− 2·7	3	0·93	+0·31	11	22
	Douglas (Isle of Man)	48	26	43·7	31·1	37·4	− 3·6	3	1·18	+0·15	14	27
7. ENGLAND, N.W.	Barrow-in-Furness	47	30	43·0	35·4	39·2	− 2·3	3	0·82	?	*	*
	Stonyhurst	47	26	39·8	31·6	35·7	− 3·3	4	1·22	+0·11	11	21
	Blackpool ⚓	47	25	42·8	33·3	38·1	− 3·4	3	0·77	+0·05	8	15
	Manchester	45	25	38·9	30·3	34·6	− 5·1	4	0·90	+0·12	*	*
	Liverpool Obsy (Bidston)	47	31	42·4	35·7	39·1	− 1·5	3	0·75	+0·31	*	*
	Llandudno ⚓	49	33	44·2	38·8	41·5	− 0·5	1	0·77	−0·03	?	?
	Holyhead	49	33	46·0	38·1	42·1	− 1·9	3	0·98	+0·18	*	*
8. ENGLAND, S.W.	Pembroke	51	30	45·7	36·9	41·3	− 2·2	5	0·80	−0·10	15	28
	Arlington (N. Devon)	49	27	41·4	31·4	36·4	− 4·6	4	1·41	?	*	*
	Cullompton ⚓	51	22	42·3	29·8	36·1	− 5·4	2	0·47	?	18	33
	Falmouth	52	32	45·0	37·1	41·1	− 3·4	4	0·41	−0·61	19	34
	Plymouth	52	28	44·6	32·6	38·6	− 4·4	3	0·29	−0·51	22	39
	Prawle Point	51	28	45·3	33·1	39·2	− 3·8	2	0·25	?	*	*
9. IRELAND, N.	Londonderry	55	28	48·5	32·2	40·4	− 0·3	6	0·81	+0·01	*	*
	Mullaghmore	49	26	45·9	34·4	40·2	− 1·7	5	0·97	?	*	*
	Markree Castle	49	19	43·3	29·4	36·4	− 4·6	5	0·58	?	14	27
	Brookeborough	47	19	42·6	29·0	35·8	− 4·2	3	0·87	?	*	*
	Armagh	48	26	41·4	31·9	36·7	− 3·9	5	0·53	−0·07	17	33
	Donaghadee	47	30	44·1	35·3	39·7	− 1·8	4	0·46	?	*	*
10. IRELAND, S.	Dublin	49	30	43·6	33·5	38·6	− 2·9	2	0·57	+0·01	19	36
	Parsonstown	50	21	42·7	27·4	35·1	− 5·2	4	0·78	+0·13	16	30
	Roche's Point	52	30	46·9	35·0	41·0	− 2·1	3	0·82	−0·38	*	*
	Valencia	53	30	49·6	36·6	43·1	− 2·4	3	0·60	−0·69	14	26
	Foynes	51	25	45·4	37·2	41·3	− 0·7	2	0·67	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 50.] WEEK ENDING MONDAY, DECEMBER 17, 1883. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	54	32	44	35	39	1 above.	5	7	1 more.	13	28
	2. ENGLAND, N.E.	55	31	46	37	41	3 above.	6	9	3 more.	? 6	? 11
	3. ENGLAND, E.	55	32	47	37	42	3 above.	6	6	0 (average).	10	20
	4. MID. COUNTIES	56	30	47	39	43	4 above.	5	4	2 less.	8	16
	5. ENGLAND, S.	55	31	48	39	43	3 above.	5	3	4 less.	10	19
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	54	32	45	37	41	1 above.	5	22	6 more.	9	18
	7. ENGLAND, N.W.	57	30	47	39	43	2 above.	5	8	1 more.	4	8
	8. ENGLAND, S.W.	55	33	49	42	45	3 above.	5	8	1 less.	13	23
	9. IRELAND, N.	56	29	47	38	42	2 above.	6	11	4 more.	5	10
	10. IRELAND, S.	55	29	49	40	45	3 above.	5	6	4 less.	13	25

General Remarks.

Weather has been cloudy or dull and very unsettled, with frequent falls of rain during the first part of the period, and showers of hail, sleet, or snow at its close.

Temperature has been above the mean in all districts, the excess in the "Midland Counties" being 4°. The maxima were generally registered on the 13th or 14th, and were rather high, varying from 54° in Scotland to 57° in "England, S.W." The minima, which were recorded on the 16th or 17th, ranged from 29° in Ireland to 33° in the N.W. of England.

Rainfall has been rather more than the mean in Scotland, "Ireland, N.", "England, N.E.", and "England, N.W.", and about equal to its normal value in "England, E.", but in all other districts a slight deficit is shown.

Bright sunshine has been less general than during last week, the percentages of possible duration ranging from 28 in "Scotland, E." to 8 in "England, N.W."

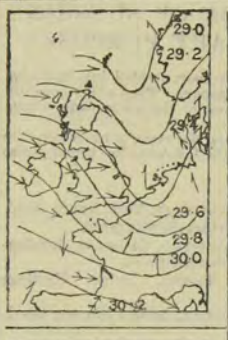
Depressions observed.—Barometric pressure during this period has been subject to very considerable and rapid oscillations. Several depressions have travelled—generally in an easterly or south-easterly direction—across our Islands and the North Sea, causing the wind to blow very strongly from between W. and N.W. The most serious of these disturbances appeared suddenly off the N.W. of Scotland late on the 11th and, travelling with unusual rapidity during the night, occasioned exceptionally violent westerly to north-westerly gales in all our northern and north-western districts, and strong squally gales in other parts of the Kingdom. Towards the close of the period, the barometer had risen quickly along our western coasts, and fresh or strong northerly winds or gales had become general.

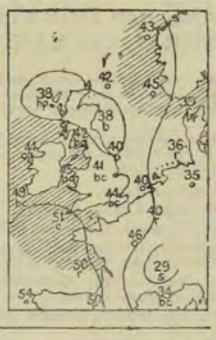
10190. 100 & 470.—12/83. Wt. 32. E. & S.

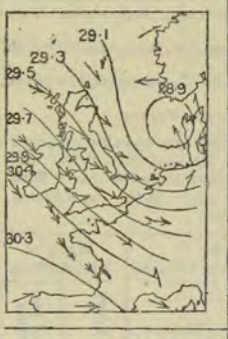
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending December 17, 1883.

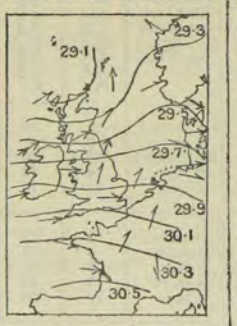
Synoptic Weather Charts.—8 a.m.

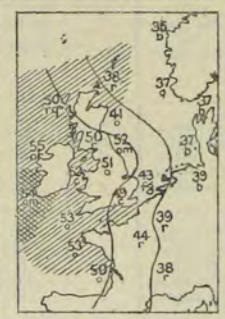
BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

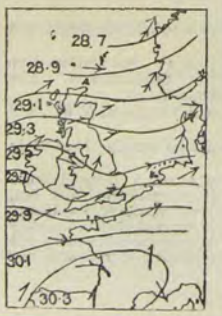


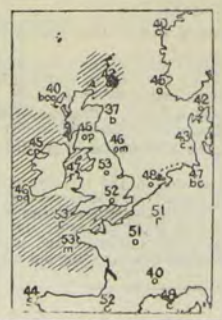












Weather during the 24 hours succeeding the date of the Charts.

Tuesday, December 11.

Weather fine over the greater part of Ireland and England, but rainy in Denmark and the W. of France, and showery in the N. of Scotland. Heavy rain and sleet falling in N. later, and lightning occurring in E. of England.

Temperature fallen W. and N., risen slightly elsewhere; readings ranging from 51° at Scilly to 35° at Wick and Nairn.

Wind fresh or strong from N.W. over our Islands, and strong to a gale from S. on eastern shores of North Sea. Subsequently backing to S.W. at all our more northern stations, and increasing to strong gale.

Sea rough in the W. and S.

Barometer rising in W. and N. of our Islands, falling elsewhere. Highest pressures over Spain, and lowest off W. of Norway. New and very deep depression passing across Scotland late in evening, and barometer falling rapidly on all our coasts.

Wednesday, December 12.

Weather fair over England and France, but cloudy or overcast elsewhere, with rain in many places, and snow in some parts of Scotland.

Temperature fallen slightly; readings ranging from 50° at Scilly to 35° at Wick.

Wind blowing a severe gale from W. in early morning over the whole of United Kingdom, but afterwards veering to N.W. and moderating gradually. Backing to S.W. on extreme western coasts in evening.

Sea rough or high generally.

Barometer rising rapidly over our Islands and less quickly in France, but falling on eastern shores of North Sea. Deep depression of previous evening now shown off W. coast of Denmark. Disturbance continuing to move eastwards later, and barometric recovery extending to Denmark, but new fall commencing in W. of Ireland.

Thursday, December 13.

Weather fine on eastern shores of North Sea, but cloudy or overcast elsewhere, with rain in many places.

Temperature risen several degrees; readings ranging from 55° at Mullaghmore to 38° at Sumburgh Head.

Wind westerly or south-westerly; moderate in force in S.E., but strong to gale in most other districts.

Sea rough on all but our E. coasts.

Barometer falling over our Islands, but rising at most of the Continental stations. Depression of Tuesday night filling up rapidly over S. of Sweden, but new disturbance shown off N. of Scotland. Latter subsequently moving north-eastwards, and barometer rising in N.W.

Friday, December 14.

Weather fine at most of the Scotch stations, but cloudy or overcast elsewhere, with rain in many places. Sleet and hail showers falling in Scotland later.

Temperature fallen at all but the southern stations; readings ranging from 53° at York, Scilly, and Cambridge to 37° at Aberdeen. Fall subsequently extending to southern districts.

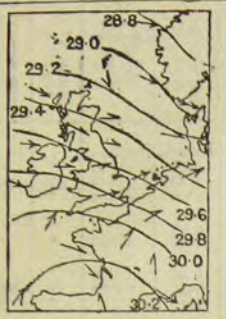
Wind south-westerly or southerly in Scandinavia, but generally westerly in our Islands and the N. of France; strong to a gale in force in many places.

Sea rough on all but our E. coasts.

Barometer falling generally. Highest pressure over S. of France, with large depression to northward of Scotland, and steep gradients over the whole of our Islands. Disturbance moving eastwards later, and barometer rising a little in W.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, December 15.

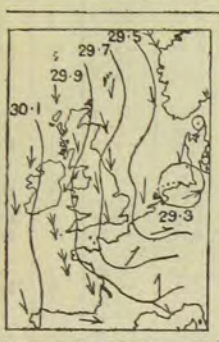
Weather fine at most of the eastern and southern stations, but dull and showery in the W. and extreme N. Rain falling in E. and S. later.

Temperature fallen several degrees; readings ranging from 49° at Scilly to 35° at Sumburgh Head, Wick, and Nairn.

Wind generally westerly and fresh or strong in force on nearly all coasts. Subsequently vearing to N.W. in W., but backing in E.

Sea rough in the W. and S. but moderate in E. and N.

Barometer rising at most stations and depression of previous day now shown over Scandinavia. New disturbance forming over our N.W. coasts later and subsequently travelling east-south-eastwards.



Sunday, December 16.

Weather squally and showery, with snow in the N. and E.

Temperature fallen several degrees; readings ranging from 46° at Scilly to 33° at York.

Wind generally northerly and strong to a gale on many parts of our coasts.

Sea rough.

Barometer falling at the N. German, Dutch, and French stations, rising briskly elsewhere. Depression of previous evening now found over the N. of Holland. Rise becoming general later.

Monday, December 17.

Weather dull in the N., and showery in the E. and S.E., but generally fine elsewhere.

Temperature fallen a little in most places; readings ranging from 44° at Scilly to 30° at Parsonstown.

Wind generally northerly, strong in force on many parts of our eastern and southern coasts. Subsequently backing to W. at all northern stations.

Sea rough E. and S.

Barometer rising generally. Depression of Saturday evening quite disappeared, and anticyclone, with readings as high as 30·7 in., lying off W. of Ireland. Slight fall taking place in N. later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟫⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.)						Rainfall.			Bright Sunshine	
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	49	31	42·3	33·4	37·9	−2·3	7	1·33	+0·58	*	*
	Stornoway	51	31	44·0	33·4	38·7	−0·8	7	2·34	+0·98	4	9
	Wick	45	32	40·1	33·3	36·7	−2·3	6	2·05	+1·30	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	37	50·6	45·1	47·9	+0·8	7	0·63	−0·27	*	*
	Jersey (Noirmont)	53	39	49·4	44·1	46·8	+3·2	4	0·42	−0·31	9	16

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	52	32	42·7	34·4	38·6	+ 0·6	6	0·71	+0·23	*	*
	Aberdeen	54	32	42·1	34·3	38·2	+ 0·2	5	0·83	+0·14	13	28
	Leith	54	34	45·7	36·4	41·1	+ 3·0	5	0·45	+0·05	*	*
2. ENGLAND, N.E.	Alnwick Castle	55	32	44·9	35·9	40·4	+ 2·4	5	0·85	?	*	*
	Shields	55	31	46·0	36·1	41·1	+ 1·9	6	1·36	+0·70	*	*
	Durham											
	Scarborough ⚓	44	33	46·6	36·7	41·7	+ 3·3	7	1·20	+0·44	*	*
	York	55	32	46·7	37·6	42·2	+ 3·7	6	0·51	−0·09	?6	?11
	Spurn Head	52	32	46·1	36·9	41·5	+ 3·0	7	0·71	?	*	*
3. ENGLAND, E.	Hillington ⚓	53	34	46·2	36·3	41·3	+ 2·9	6	0·77	+0·14	4	8
	Yarmouth	54	35	46·0	37·0	41·5	+ 2·5	6	0·57	−0·21	*	*
	Geldeston	55	34	47·4	36·7	42·1	+ 3·1	5	0·70	+0·12	18	34
	Cambridge	55	32	47·1	37·1	42·1	+ 3·3	5	0·49	+0·02	9	17
	Rothamsted	55	33	46·9	36·9	41·9	+ 3·9	7	0·37	−0·18	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	56	32	46·6	38·1	42·4	+ 3·4	6	0·60	+0·05	*	*
	Loughborough	54	33	47·0	39·7	43·4	+ 5·4	6	0·27	−0·29	*	*
	Leicester	53	33	46·4	37·9	42·2	+ 4·3	7	0·38	−0·15	6	12
	Birmingham										*	*
	Cheadle ⚓	52	30	44·5	35·2	39·9	+ 1·9	5	0·41	?	*	*
	Churchstoke ⚓	53	30	46·6	37·0	41·8	+ 3·3	5	0·54	?	9	17
	Hereford ⚓	55	35	48·6	41·8	45·2	+ 6·2	5	0·22	−0·46	*	*
	Cirencester	52	33	?46·3	38·3	?42·3	+ ?3·3	3	0·33	−0·38	7	13
	Oxford	54	34	47·7	39·9	43·8	+ 4·5	5	0·15	−0·29	11	21
5. ENGLAND, S.	London†	55	36	47·6	40·3	44·0	+ 4·6	4	0·10	−0·38	5	9
	Marlborough ⚓	51	31	45·6	36·4	41·0	+ 2·5	5	0·57	−0·13	8	15
	Strathfield Turgiss ⚓	54	34	47·7	37·5	42·6	+ 3·6	5	0·16	−0·34	*	*
	Dover	53	36	47·0	39·4	43·2	+ 1·6	6	0·37	−0·44	*	*
	Hastings (St. Leonard's)	52	35	48·1	38·5	43·3	+ 1·7	6	0·25	−0·38	13	24
	Southampton	54	34	48·4	39·6	44·0	+ 4·5	4	0·22	?	14	26
	Hurst Castle	52	34	48·6	41·0	44·8	+ 2·8	6	0·26	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	54	32	45·2	34·7	40·0	− 0·2	6	5·08	?	*	*
	Glasgow	52	34	44·6	34·9	39·8	+ 0·8	5	1·79	+0·75	6	13
	Ardrossan	52	34	46·9	38·3	42·6	+ 3·6	6	1·49	+0·60	*	*
	Silloth (Cumberland)	50	32	43·0	37·5	40·3	+ 1·0	5	1·20	+0·55	8	16
	Douglas (Isle of Man)	52	34	46·5	39·2	42·9	+ 1·7	5	1·38	+0·34	12	24
7. ENGLAND, N.W.	Barrow-in-Furness	51	34	45·9	39·4	42·7	+ 1·4	4	0·92	?	*	*
	Stonyhurst	56	31	47·4	36·7	42·1	+ 3·2	5	1·56	+0·44	5	10
	Blackpool ⚓	50	35	46·0	38·6	42·3	+ 0·9	6	0·65	−0·08	6	12
	Manchester	57	30	48·1	35·4	41·8	+ 2·3	5	1·25	+0·48	*	*
	Liverpool Obs? (Bidston)	55	35	47·3	40·9	44·1	+ 3·5	6	0·32	−0·10	*	*
	Llandudno ⚓	52	37	?47·7	41·0	?44·4	?+ 2·4	5	0·70	−0·12	1	2
	Holyhead	53	34	48·4	40·0	44·2	+ 0·2	5	0·51	−0·38	*	*
8. ENGLAND, S.W.	Pembroke	52	36	49·1	43·9	46·5	+ 3·3	5	0·63	−0·27	9	17
	Arlington (N. Devon)	51	33	46·7	39·9	43·3	+ 2·7	6	1·32	?	*	*
	Cullompton ⚓	55	35	48·8	41·3	45·1	+ 4·1	5	0·75	?	11	20
	Falmouth	53	37	49·4	43·2	46·3	+ 2·0	7	0·79	−0·18	14	25
	Plymouth	54	33	49·7	41·9	45·8	+ 2·8	4	0·29	?	16	29
	Prawle Point	53	33	49·0	40·4	44·7	+ 1·7	5	0·72	?	*	*
9. IRELAND, N.	Londonderry	56	34	48·2	36·8	42·5	+ 1·9	7	1·48	+0·64	*	*
	Mullaghmore	55	38	48·4	40·6	44·5	+ 2·8	6	1·07	?	*	*
	Markree Castle	54	32	47·4	37·8	42·6	+ 1·7	6	0·97	?	9	18
	Brookeborough	54	29	45·1	35·7	40·4	+ 0·5	5	1·45	?	*	*
	Armagh	53	31	45·8	36·2	41·0	+ 0·8	6	0·94	+0·31	1	2
	Donaghadee	55	36	46·7	38·4	42·6	+ 1·4	5	0·56	?	*	*
10. IRELAND, S.	Dublin	55	32	48·5	38·5	43·5	+ 2·4	4	0·30	−0·24	15	29
	Parsonstown	53	29	47·3	37·4	42·4	+ 2·3	5	0·66	−0·04	15	29
	Roche's Point	55	35	50·4	41·7	46·1	+ 3·1	4	0·34	−0·90	*	*
	Valencia	55	39	51·0	43·9	47·5	+ 2·0	6	1·07	−0·32	9	17
	Foynes	54	35	48·2	40·2	44·2	+ 2·2	4	0·78	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 51.] WEEK ENDING MONDAY, DECEMBER 24, 1883. [*Price 2d.*

[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	DISTRICTS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	54	31	48	36	42	4 above.	5	6	0 (average).	8	18
	2. ENGLAND, N.E.	53	31	48	37	43	4 above.	4	2	5 less.	?8	?16
	3. ENGLAND, E.	50	31	46	36	41	3 above.	2	less than ½	6 less.	6	11
	4. MID. COUNTIES	56	30	48	37	42	4 above.	2	1	6 less.	6	12
	5. ENGLAND, S.	52	30	47	36	42	2 above.	2	0	6 less.	5	9
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	54	32	48	39	43	4 above.	6	16	0 (average).	2	4
	7. ENGLAND, N.W.	54	29	48	39	43	3 above.	4	4	4 less.	3	7
	8. ENGLAND, S.W.	52	31	48	39	44	1 above.	5	3	7 less.	5	9
	9. IRELAND, N.	53	32	49	39	44	3 above.	6	5	2 less.	1	1
	10. IRELAND, S.	54	30	50	39	44	2 above.	4	2	8 less.	2	3

General Remarks.

Weather has been very cloudy or gloomy in all parts of the Kingdom. Very little rain, however, has fallen, but towards the close of the period the English districts were visited by mists or wet fogs.

Temperature has continued above the mean in all places, the excess varying from 1° in "England, S.W." to 4° in Scotland and north-eastern and central England. The maxima were generally registered on the 22nd or 24th, and ranged from 50° in "England, E." to 56° in the "Midland Counties." The minima, which were recorded on different days in the various parts of the country, ranged from 29° in "England, N.W." to 32° in "Scotland, W." and "Ireland, N."

Rainfall has been about equal to the mean in Scotland, but considerably less in England and Ireland; at some of our south-eastern stations the weather was altogether rainless.

Bright sunshine has been very deficient. The percentages of possible duration have been unusually small, varying from 18 in "Scotland, E." to 4 in "Scotland, W.", to 3 in "Ireland, S." and 1 in "Ireland, N."

Depressions observed.—During the whole of this period a series of depressions travelled in an easterly direction over the northern part of our area, causing important changes in the barometer on our northern and north-western coasts, while in the S. of our Islands and over France pressure was high and comparatively steady. At first north-westerly to westerly winds prevailed, but as the week progressed they backed to between W. and S.W. In the S. they were generally light or moderate, but in the N. and N.W. they blew freshly or strongly, and at some of the more exposed stations occasionally reached the force of a gale.

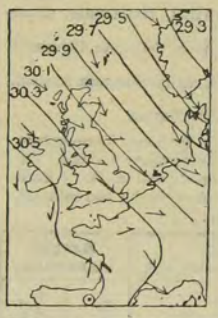
10284. 100 & 470.—12/83. Wt. 32. E. & S.

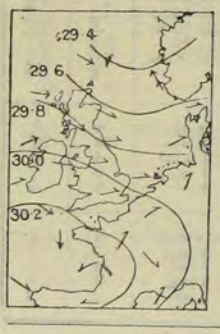
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending December 24, 1883.

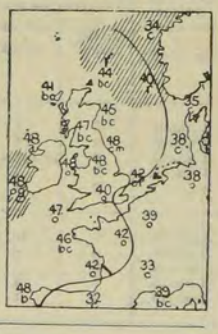
Synoptic Weather Charts.—8 a.m.

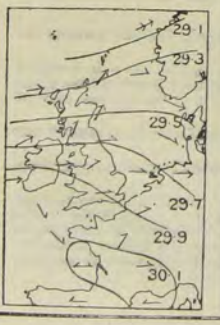
BAROMETER AND WIND.

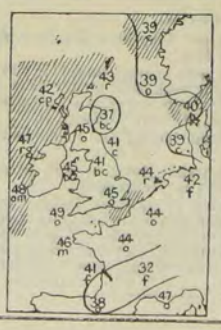
CLOUD, RAIN, SEA, AND TEMPERATURE.











Weather during the 24 hours succeeding the date of the Charts.

Tuesday, December 18.

Weather fine E. and S., cloudy or overcast elsewhere, with rain in the extreme N. and N.W. Rain falling later at all but south-eastern stations.

Temperature fallen at the Continental stations, but risen in our Islands; readings ranging from 47° at Stornoway and Valencia to 33° at Aberdeen and 32° at Oxford.

Wind westerly in N., but north-westerly in S. and north-easterly in France; moderate or fresh in force generally. Subsequently veering to N.W. in N.

Sea rough off the E. of England, moderate or slight elsewhere.

Barometer falling at all northern stations, but rising in S. Area of high pressure lying off our S.W. coasts, and large depression advancing towards the W. of Norway. Fall extending to southern stations later.

Wednesday, December 19.

Weather overcast in the extreme N. and N.W., generally fine elsewhere. Rain falling at all northern stations later, and lightning occurring at Nairn.

Temperature fallen W. and N., but risen S. and E.; readings ranging from 48° at Scilly to 36° at Sumburgh Head and Hurst Castle.

Wind north-westerly, strong in force in N. of Scotland and also on eastern shores of North Sea, but moderate on our western and southern coasts.

Sea rather rough in the N. and N.W.

Barometer rising W. and S., falling elsewhere. Readings still highest off our S.W. coasts, and large depression moving in a south-easterly direction across Scandinavia. New disturbance approaching N. of Scotland in evening, and rapid fall taking place W. and N.

Thursday, December 20.

Weather cloudy or overcast at all but our northern stations, with rain at Mullaghmore. Rain falling later excepting in S.E.

Temperature risen a few degrees; readings ranging from 50° at Leith to 38° at Dover.

Wind strong north-westerly in Scotland, but generally moderate or fresh from W. elsewhere. Backing to W. in extreme N. later.

Sea rather rough at Valencia and also at one or two of our northern stations; moderate or slight in the S. and E.

Barometer falling at all but the Swedish stations. Highest pressures now lying over the W. of France, with large depression off the W. of Norway. Shallow subsidiary disturbance appearing over the N. of Ireland later.

Friday, December 21.

Weather fair over the greater part of England, but dull and rainy on our extreme W. and N.W. coasts. Rain, hail, or sleet falling later at all our more northern stations, and lightning occurring at Wick.

Temperature risen slightly S., fallen elsewhere; readings ranging from 49° at Scilly to 37° at Aberdeen.

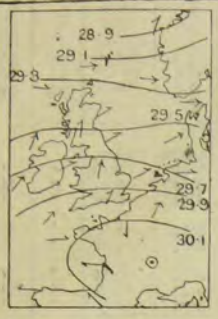
Wind south-westerly in the E. and N. of Scotland, but westerly on all other coasts; strong to a gale in force in extreme N.W.

Sea rather rough off the N. of Scotland and W. of Ireland.

Barometer still falling generally. High pressure area now lying over Southern France, but further large depression appearing to westward of Norway. Rise taking place in S. later.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	**Weather** during the 24 hours succeeding the date of the Charts.



Saturday, December 22.

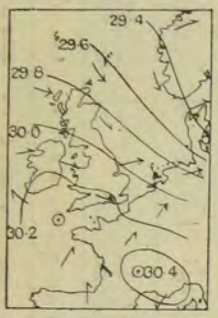
Weather fair in the E. and S.E., cloudy or overcast elsewhere, with rain at Ardrossan. Rain falling later in almost all places.

Temperature fallen a little over Scotland and the S.W. of France but risen in most parts of England and Ireland; readings varying from 50° at Valencia to 35° at Aberdeen.

Wind light easterly in the S. of France, but moderate or fresh from S.W. or W. elsewhere. Subsequently veering to N.W. in Ireland.

Sea rough in the W. and extreme N.

Barometer falling at all but the Scotch and French stations. High pressure area still lying over the S. of France and large depression off the W. of Norway. Subsidiary disturbance crossing our northern districts later and barometer subsequently rising briskly in Ireland.



Sunday, December 23.

Weather fine in most parts of our Islands, but cloudy or overcast elsewhere, with rain in the W. of Norway. Cloud settling in later at all our more western stations.

Temperature fallen generally; readings ranging from 50° at Scilly to 33° at Nairn and Parsonstown.

Wind north-westerly in Scotland and the S. of Norway, but generally westerly elsewhere; strong in force on eastern shores of North Sea. Subsequently backing to the south-westward or southward in W.

Sea rather rough at Scilly, moderate to smooth elsewhere.

Barometer rising briskly at all but the Danish stations. Subsidiary depression of previous day after growing much deeper in course of night now shown in neighbourhood of Skager Rack. Rapid rise taking place in Norway and Denmark later.

Monday, December 24.

Weather cloudy in most places, with rain in the S. of Ireland and mist at several other of our western stations.

Temperature risen quickly in most places; readings ranging from 52° at Mullaghmore to 40° at Spurn Head and Yarmouth.

Wind easterly in the S. of France, but south-westerly over ~~our Islands and~~ the greater part of our Islands; strong in force on our extreme N.W. coasts.

Sea rather rough at Stornoway, moderate to smooth elsewhere.

Barometer rising generally—very quickly on eastern shores of North Sea. Anticyclone lying over central France, with lowest pressures off the N. of Scotland. Rise continuing all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⋙ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	48	30	45·1	34·6	39·9	−0·1	7	1·27	−0·48	*	*
	Stornoway	53	31	46·6	35·3	41·0	+1·8	6	1·41	+0·01	1	3
	Wick	53	32	44·4	34·9	39·7	+0·7	6	0·66	−0·04	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	42	49·9	44·9	47·4	+0·4	5	0·12	−0·83	*	*
	Jersey (Noirmont)	50	39	48·1	42·7	45·4	+2·0	4	0·15	−0·61	2	4

The above observations made in Scotland, N." and the "Channel Islands" are not included in the Summary on page 1

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.§	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	53	33	47·0	36·6	41·8	+ 3·8	5	0·58	+0·10	*	*
	Aberdeen	54	31	46·1	33·3	39·7	+ 2·0	6	0·72	+0·07	8	18
	Leith	53	34	50·0	37·6	43·8	+ 5·8	5	0·34	−0·06	*	*
2. ENGLAND, N.E.	Alnwick Castle	53	35	48·9	38·7	43·8	+ 5·8	4	0·25	?	*	*
	Shields	53	31	48·7	35·7	42·2	+ 3·2	5	0·21	−0·39	*	*
	Durham											
	Scarborough ℳ	50	36	48·1	38·3	43·2	+ 5·2	5	0·15	−0·56	*	*
	York	51	32	48·1	36·4	42·3	+ 4·1	3	0·09	−0·51	?8	?16
	Spurn Head	48	33	45·6	37·1	41·4	+ 3·3	2	0·05	?	*	*
3. ENGLAND, E.	Hillington ℳ	50	31	45·7	36·6	41·2	+ 3·2	3	0·05	−0·56	2	4
	Yarmouth	48	34	45·0	36·6	40·8	+ 1·8	2	0·03	−0·72	*	*
	Geldeston	49	33	46·1	36·5	41·3	+ 2·3	1	0·01	−0·54	9	17
	Cambridge	50	31	47·4	35·6	41·5	+ 3·0	1	0·01	−0·43	6	11
	Rothamsted	50	31	46·5	35·2	40·9	+ 2·9	2	0·02	−0·58	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	34	48·6	37·4	43·0	+ 4·0	4	0·07	−0·45	*	*
	Loughborough	55	32	48·3	37·1	42·7	+ 4·8	2	0·04	−0·52	*	*
	Leicester											
	Birmingham (Oscott)										*	*
	Cheadle ℳ	52	30	46·5	36·3	41·4	+ 3·6	3	0·16	?	*	*
	Churchstoke ℳ	54	30	48·4	36·9	42·7	+ 4·4	1	0·05	?	10	20
	Hereford ℳ	56	32	49·7	36·6	43·2	+ 4·7	0	—	−0·70	*	*
	Cirencester	48	31	45·9	35·9	40·9	+ 2·3	1	0·01	−0·74	2	4
	Oxford	49	32	47·0	37·1	42·1	+ 3·1	0	—	−0·52	?	?
5. ENGLAND, S.	London†	51	33	47·3	37·1	42·2	+ 3·2	0	—	−0·52	2	4
	Marlborough ℳ	49	30	45·1	34·3	39·7	+ 1·4	3	0·03	−0·74	3	6
	Strathfield Turgiss ℳ	50	30	46·9	34·3	40·6	+ 1·6	0	—	−0·54	*	*
	Dover	49	35	46·0	37·6	41·8	+ 0·7	0	—	−0·80	*	*
	Hastings (St. Leonard's)	50	34	46·6	37·4	42·0	+ 0·9	3	0·05	−0·62	10	19
	Southampton	52	32	47·7	36·4	42·1	+ 2·9	3	0·02	?	4	7
	Hurst Castle	50	32	46·9	37·3	42·1	+ 0·6	3	0·06	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	54	34	49·8	37·7	43·8	+ 3·8	7	4·05	?	*	*
	Glasgow	50	34	46·7	38·0	42·4	+ 3·8	7	1·78	+0·68	2	4
	Ardrossan	50	32	48·3	39·9	44·1	+ 5·1	7	1·06	+0·13	*	*
	Silloth (Cumberland)	49	33	45·7	38·7	42·2	+ 3·2	4	0·70	0·00	2	4
	Douglas (Isle of Man)	50	37	47·7	40·5	44·1	+ 3·1	4	0·25	−0·84	2	4
7. ENGLAND, N.W.	Barrow-in-Furness	48	?35	46·9	40·0	43·5	+ 2·6	6	0·35	?	*	*
	Stonyhurst	48	30	46·4	36·4	41·4	+ 2·8	5	1·22	+0·12	5	10
	Blackpool ℳ	48	32	46·6	39·7	43·2	+ 2·1	6	0·19	−0·56	3	6
	Manchester	50	29	47·8	34·3	41·1	+ 1·9	4	0·77	0·00	*	*
	Liverpool Obs? (Bidston)	51	36	48·7	40·6	44·7	+ 4·2	3	0·14	−0·31	*	*
	Llandudno ℳ	54	37	48·7	41·3	45·0	+ 3·0	3	0·16	−0·67	2	4
	Holyhead	50	36	49·0	39·6	44·3	+ 0·8	4	0·24	−0·71	*	*
8. ENGLAND, S.W.	Pembroke	50	37	48·9	42·1	45·5	+ 2·5	5	0·14	−0·81	2	4
	Arlington (N. Devon)	49	31	46·9	35·9	41·4	+ 1·0	5	0·80	?	*	*
	Cullompton ℳ	52	31	48·1	35·4	41·8	+ 0·8	4	0·10	?	6	11
	Falmouth	51	35	48·2	42·0	45·1	+ 1·0	5	0·16	−0·82	9	16
	Plymouth	52	32	48·9	38·9	43·9	+ 1·2	5	0·10	−0·76	3	5
	Prawle Point	52	32	48·9	38·4	43·7	+ 0·9	3	0·14	?	*	*
9. IRELAND, N.	Londonderry	53	34	50·0	39·1	44·6	+ 4·1	6	1·07	+0·19	*	*
	Mullaghmore	53	38	50·0	42·3	46·2	+ 4·3	6	0·97	?	*	*
	Markree Castle	52	33	49·1	39·9	44·5	+ 3·5	6	0·38	?	1	2
	Brookeborough	50	32	47·0	37·3	42·2	+ 2·4	5	0·33	?	*	*
	Armagh	51	34	47·6	38·5	43·1	+ 3·1	7	0·29	−0·36	0	0
	Donaghadee	51	34	49·1	37·1	43·1	+ 2·1	5	0·20	?	*	*
10. IRELAND, S.	Dublin	52	36	48·6	40·7	44·7	+ 3·6	2	0·12	−0·42	2	4
	Parsonstown	53	30	49·0	35·0	42·0	+ 2·0	2	0·19	−0·54	1	2
	Roche's Point	52	35	50·4	37·6	44·0	+ 1·0	5	0·30	−1·00	*	*
	Valencia	53	36	51·1	41·1	46·1	+ 0·7	6	0·49	−0·98	2	4
	Foynes	54	37	51·3	38·6	45·0	+ 3·2	5	0·09	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

§ Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. VI. No. 52.] WEEK ENDING MONDAY, DECEMBER 31, 1883. [*Price 2d.* [*Annual subscription, post paid,* 12s. 6d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 20 years observations (1861-80), calculated for the Meteorological Office; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. † Each value in this column (Average of Mean Temperatures for each Day) is the numerical mean of the values in the two columns immediately preceding it. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	DISTRICTS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.†	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	51	28	45	36	41	3 above.	2	2	4 less.	9	20
	2. ENGLAND, N.E.	49	30	42	36	39	1 above.	2	1	5 less.	?5	?10
	3. ENGLAND, E.	47	33	41	36	39	0 (average).	4	1	5 less.	0	0
	4. MID. COUNTIES	48	29	42	36	39	1 above.	2	1	6 less.	1	2
	5. ENGLAND, S.	48	32	43	38	40	1 above.	3	1	6 less.	1	1
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	54	30	46	41	43	4 above.	3	3	8 less.	2	5
	7. ENGLAND, N.W.	49	33	45	39	43	1 above.	3	2	6 less.	0	0
	8. ENGLAND, S.W.	52	31	46	40	43	1 above.	4	1	9 less.	1	1
	9. IRELAND, N.	55	23	47	39	43	3 above.	4	3	6 less.	6	11
	10. IRELAND, S.	55	24	49	41	45	3 above.	3	4	6 less.	10	20

General Remarks.

Weather has been fair in Scotland, but dull in Ireland and England, with thick wet fogs over the eastern, central, and southern districts.

Temperature has been above the average in all districts excepting "England, E.", the deficit ranging from 1 to 3 degrees. The highest readings were recorded either on the 25th or 29th, when the thermometer reached 51° in "Scotland, E.", 54° in "Scotland, W.", and 55° in Ireland. The lowest readings were observed during the early part of the week, but no severe frosts were registered.

Rainfall was less than the average in all districts. Over England the fall which was very slight, was in the form of thick misty drizzle.

Bright sunshine amounted to 20 °/₀ of the possible duration in "Scotland, E." and "Ireland, S.", but was very deficient elsewhere. In "England, E." and "England, N.W." there was none at all.

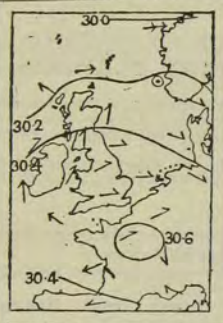
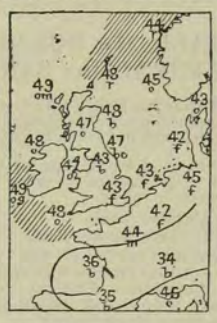
Depressions observed.—During the greater part of the week an anticyclone has lain over our Islands, and the winds have consequently been light and somewhat variable. On the 28th and 29th, however, a series of depressions skirted our extreme western and northern coasts, occasioning moderate to strong southerly winds in Ireland and Scotland, with some rain.

c 10376. 100 & 470.—1/84. Wt. 32. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending December 31, 1883.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, December 25.

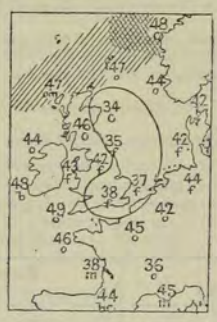
Weather fine in the E. of Scotland and N.E. of England, cloudy or overcast elsewhere, with wet mist, and fog over the central and south-eastern districts, and drizzling rain in some places.

Temperature risen a little in the W. of Norway, but fallen over our Islands and France; readings ranging from 50° at Leith to 40° at Parsonstown and Spurn Head.

Wind strong from E. in the W. of France, and moderate from S.E. in the S.W. of England; very light and variable from the south-westward elsewhere.

Sea rather rough on our S.W. coasts, as well as in the far N.; moderate to smooth elsewhere.

Barometer rising at all but our south-western stations. Area of high pressure lying over France and the greater part of England, and a large depression over the N.W. of Norway. Slight fall taking place at Valencia in the course of the evening.



Wednesday, December 26.

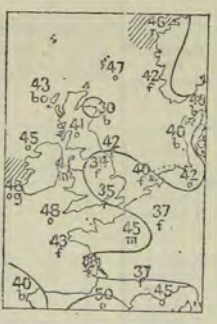
Weather fine in Scotland and Denmark and also at Valencia, but cloudy or overcast elsewhere, with wet fog at most of the English stations. Slight rain falling at some of the southern stations during the day.

Temperature fallen a few degrees generally; readings ranging from 49° at Scilly to 34° at Aberdeen and Loughborough.

Wind light or moderate in most places; south-easterly on our south-western coasts, easterly in the N. of France, variable airs or calm in other districts.

Sea rough off the extreme N. of Scotland and in the W. of Norway, slight or smooth on other coasts.

Barometer rising slightly at all but our south-western stations. Distribution of pressure very similar to that of yesterday. Anticyclone still lying over the greater part of England and France, and low pressures to the northward of our Islands.



Thursday, December 27.

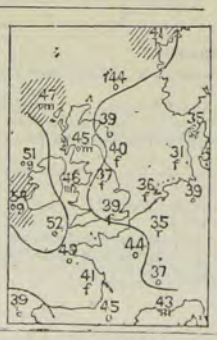
Weather still fine in Denmark and Scotland; cloudy or overcast elsewhere, with thick wet fog at many of the English and French stations. Heavy rain falling at Roche's Point during the day, and slight rain over England and the S. of Scotland.

Temperature fallen in the N., changed little and irregularly in most other places; readings ranging from 49° at Roche's Point to 30° at Nairn and Aberdeen.

Wind light from the southward in Scotland, south-easterly or variable over the greater part of England and France, but blowing a fresh gale from S.W. in the N.W. of Norway. Wind freshening somewhat from the southward in the W. and N. during the day.

Sea rather rough at Valencia; little disturbed elsewhere.

Barometer falling generally, most in the W.; anticyclone moving slowly to the eastward. Lowest pressures now found over the N. of Scandinavia. Fall continuing all day.



Friday, December 28.

Weather still fine in Scotland, foggy over England, cloudy and rainy in Ireland. Rain setting in over the greater part of the Kingdom subsequently.

Temperature rising generally; readings ranging from 38° at Nairn to 54° at Valencia.

Wind southerly in the W. and N., and blowing strongly at Valencia and Stornoway; calms and variable airs at the eastern and southern stations.

Sea rough in the extreme W. and N.W., slight or smooth elsewhere.

Barometer falling all over our Islands and France, but rising over Scandinavia. Pressure increasing a little in the extreme W. later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, December 29.

Weather dull generally, with fog or mist at nearly all the English stations. Cold rain setting in in the W. and N. subsequently.

Temperature risen considerably in E. of Scotland, slightly at the English stations, but fallen a little in the W. and N.W.; readings ranging from 52° at Valencia to 38° in London and at Cambridge. Sudden falls in the W. and N.W. later on.

Wind south-easterly on the eastern shores of the North Sea, and southerly on our western and northern coasts, but calms or variable airs prevailing over the greater part of England. Wind veered suddenly to the north-westward in the W. and N. during the day.

Sea rough at Sumburgh Head and Valencia, slight or smooth elsewhere.

Barometer falling slightly in most parts of our Islands and France, but risen over Denmark and the S. of Scandinavia. Anticyclones over the S. of Sweden and Central France. Brisk rise commencing in the W. and N. later.

Sunday, December 30.

Weather fine at many of the western and northern stations, cloudy or overcast elsewhere, with mist and fog over England.

Temperature fallen several degrees in the W. and N., but changed very little in the S.E.; readings ranging from 39° at Parsonstown to 49° at Scilly.

Wind moderate from S.E. on eastern shores of North Sea and in the Bay of Biscay, but northerly in the W., and light and variable in the E. Easterly winds appearing in the S. and S.E. later.

Sea rather rough at Scilly and Skudesnaes, but smooth elsewhere.

Barometer risen quickly on our western and northern coasts. Another area of high pressure advancing over Ireland from the westward, the anticyclone over the S. of Scandinavia still existing. Rise continuing all day.

Monday, December 31.

Weather fine at our north-eastern stations, and though dull elsewhere, no fogs reported at the English stations.

Temperature risen in the N., fallen in the S. Bodö (within the Arctic circle) 8° warmer than London, and 14° warmer than Brussels.

Wind moderate from N.E. over Ireland and England, but blowing south-westerly gale in the far N.

Sea moderate in the E. and S.E., smooth in the N.E., but very rough along the W. coast of Norway.

Barometer risen over the United Kingdom and greater part of France, but large and deep depression passing over the N. of Scandinavia. Slight fall taking place in Ireland during the day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟫⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	48	38	46·6	41·1	43·9	+4·1	5	0·36	−0·45	•	•
	Stornoway	53	30	46·7	39·1	42·9	+3·7	3	0·60	−0·77	5	11
	Wick	49	32	45·3	36·7	41·0	+2·0	2	0·15	−0·50	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	55	40	50·3	45·3	47·8	+1·3	2	0·50	−0·53	•	•
	Jersey (Noirmont)	48	36	43·4	40·9	42·2	−0·8	1	0·06	−0·73	1	2

The above observations made in 'Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day's	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	51	29	45·0	35·6	40·3	+ 2·3	2	0·19	−0·30	*	*
	Aberdeen	48	28	42·6	33·7	38·2	+ 0·7	3	0·18	−0·47	9	20
	Leith	50	33	46·4	39·6	43·0	+ 5·2	2	0·07	−0·33	*	*
2. ENGLAND, N.E.	Alnwick Castle	49	30	43·0	35·6	39·3	+ 1·5	2	0·06	?	*	*
	Shields	48	33	43·7	37·6	40·7	+ 1·9	0	—	−0·60	*	*
	Durham											
	Scarborough ¶	48	34	41·7	36·6	39·2	+ 1·3	5	0·08	−0·57	*	*
	York	49	32	41·7	35·7	38·7	+ 0·7	4	0·14	−0·44	?5	?10
	Spurn Head	48	33	40·6	35·3	38·0	− 0·2	1	0·02	?	*	*
3. ENGLAND, E.	Hillington ¶	45	33	40·0	36·4	38·2	+ 0·7	5	0·09	−0·49	0	0
	Yarmouth	47	35	41·4	36·1	38·8	+ 0·3	2	0·09	−0·62	*	*
	Geldeston	46	36	40·8	37·1	39·0	+ 0·3	5	0·10	−0·39	0	0
	Cambridge	44	34	40·1	36·3	38·2	+ 0·2	3	0·06	−0·34	0	0
	Rothamsted	46	33	41·3	35·0	38·2	+ 0·4	6	0·11	−0·51	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	45	33	41·7	35·0	38·4	− 0·5	3	0·11	−0·39	*	*
	Loughborough	46	33	41·4	36·6	39·0	+ 1·4	2	0·10	−0·45	*	*
	Leicester	47	39	42·0	36·3	39·2	+ 1·9	4	0·09	−0·46	0	0
	Birmingham (Oscott)										*	*
	Cheadle ¶	45	32	41·3	35·9	38·6	+ 1·1	2	0·01	?	*	*
	Churchstoke ¶	48	29	43·2	34·9	39·1	+ 1·0	1	0·02	?	3	6
	Hereford ¶	46	33	41·6	36·8	39·2	+ 0·7	2	0·03	−0·72	*	*
	Cirencester	47	32	41·6	35·3	38·5	+ 0·1	3	0·04	−0·75	0	0
	Oxford	44	34	40·6	37·1	38·9	− 0·1	2	0·04	−0·51	0	0
5. ENGLAND, S.	London†	44	34	41·7	36·9	39·3	+ 0·3	2	0·04	−0·56	0	0
	Marlborough	47	33	42·4	35·8	39·1	+ 1·1	4	0·07	−0·73	0	0
	Strathfield Turgiss ¶	45	32	42·7	35·0	38·9	+ 0·1	4	0·15	−0·45	*	*
	Dover	45	36	41·9	39·0	40·5	− 0·1	3	0·26	−0·60	*	*
	Hastings (St. Leonard's)	47	34	41·7	38·6	40·2	− 0·4	4	0·11	−0·59	0	0
	Southampton	48	36	44·0	38·5	41·3	+ 2·2	5	0·09	?	2	4
	Hurst Castle	47	36	44·7	38·4	41·6	+ 0·5	2	0·11	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ‡	54	30	48·1	39·3	43·7	+ 3·9	3	0·78	?	*	*
	Glasgow	50	35	46·2	40·7	43·5	+ 5·0	4	0·09	−1·04	0	0
	Ardrossan	48	35	45·3	40·9	43·1	+ 4·1	3	0·23	−0·78	*	*
	Silloth (Cumberland)	49	35	44·4	40·0	42·2	+ 3·3	2	0·11	−0·67	2	4
	Douglas (Isle of Man)	49	38	46·9	41·9	44·4	+ 3·6	4	0·35	−0·60	5	10
7. ENGLAND, N.W.	Barrow-in-Furness	47	35	44·4	38·9	41·7	+ 1·2	3	0 34	?	*	*
	Stonyhurst	47	33	45·0	38·1	41·6	+ 3·1	3	0·18	−0·92	0	0
	Blackpool ¶	48	34	43·6	38·2	40·9	+ 0·3	2	0·11	−0·63	0	0
	Manchester	47	34	44·4	36·4	40·4	+ 1·4	3	0·11	−0·59	*	*
	Liverpool Obs'y (Bidston)	49	35	43·4	38·0	40·7	+ 0·4	2	0·10	−0·38	*	*
	Llandudno ¶											
	Holyhead	49	37	46·0	41·3	43·7	+ 0·6	3	0·30	−0·67	*	*
8. ENGLAND, S.W.	Pembroke	50	38	46·1	42·1	44·1	+ 1·2	3	0·21	−0·81	0	0
	Arlington (N. Devon)	48	32	44·1	36·4	40·3	0·0	3	0·05	?	*	*
	Cullompton ¶	47	31	43·0	37·1	40·1	− 0·9	4	0·17	?	0	0
	Falmouth	52	39	48·0	43·2	45·6	+ 2·0	4	0·16	−0·84	2	4
	Plymouth	50	35	47·0	40·5	43·8	+ 1·2	4	0·11	−0·89	0	0
	Prawle Point	49	36	45·7	41·7	43·7	+ 1·2	3	0·10	?	*	*
9. IRELAND, N.	Londonderry	55	28	48·9	37·8	43·4	+ 2·8	2	0·25	−0·65	*	*
	Mullaghmore	55	34	48·0	41·0	44·5	+ 2·5	3	0·50	?	*	*
	Markree Castle	54	23	47·0	37·6	42·3	+ 1·0	5	0·58	?	6	12
	Brookeborough	53	24	46·3	36·3	41·3	+ 1·4	2	0·27	?	*	*
	Armagh	52	31	46·8	39·0	42·9	+ 3·0	6	0·17	−0·53	5	10
	Donaghadee	50	40	46·6	42·4	44·5	+ 3·7	3	0·21	?	*	*
10. IRELAND, S.	Dublin	53	34	47·5	38·4	43·0	+ 2·0	3	0·13	−0·41	8	15
	Parsonstown	54	24	47·1	37·0	42·1	+ 2·2	1	0·10	−0·67	12	23
	Roche's Point	52	36	51·0	44·1	47·6	+ 4·6	4	0·78	−0·60	*	*
	Valencia	55	33	50·9	43·6	47·3	+ 2·0	3	0·65	−0·85	11	21
	Foynes										*	*

Stations marked ¶ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, the Kew Observatory, and the Meteorological Office.

‡ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Each value in this column is the numerical mean of the values in the two columns immediately preceding it.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT, 1883.

REPORTS RECEIVED TOO LATE FOR INSERTION IN THEIR PROPER PLACES.

No of Report.	For Week ending.	Names of Stations.	Temperature. (In Degrees Fahrenheit.)						Rainfall. (Amounts in tenths of an inch.)			Bright Sunshine	
			Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Daily Mean for the Week.	Number of Hours recorded.	Per-centage of possible duration.
			°	°	°	°	°	°		Inches.	Inches.		
3	January 22 -	Manchester - - -	51	31	47·0	34·8	40·9	+2·2	6	0·59	−0·11	*	*
19	May 14 - -	Laudale (Loch Sunart) -	60	35	50·6	38·6	44·6	−4·5	5	0·96	?	*	*
24	June 18 - -	Llandudno - - -	68	46	60·5	49·8	55·2	+2·7	3	0·28	−0·12	38	32
25	„ 25 - -	Llandudno - - -	65	48	60·2	49·7	55·0	−3·9	5	1·14	+0·74	20	17
28	July 16 - -	Strathfield Turgiss - -	70	42	66·9	50·1	58·5	−3·5	6	0·35	−0·15	*	*
31	August 6 -	Strathfield Turgiss - -	75	46	69·8	51·7	60·8	−1·2	4	1·09	+0·68	*	*
32	„ 13 -	Strathfield Turgiss - -	81	40	71·1	47·8	59·5	−2·5	2	0·08	−0·31	*	*
35	September 3 -	Londonderry - - -	66	46	60·9	49·5	55·2	−1·8	7	1·83	+0·98	*	*
„	„ „ -	Foynes - - - -	65	48	60·4	51·4	55·9	−2·1	7	2·27	?	*	*
37	„ 17 -	Foynes - - - -	67	47	63·7	52·1	57·9	+1·0	0	—	?	*	*
51	December 24 -	Leicester - - - -	50	32	47·2	38·2	42·7	+5·1	2	0·03	−0·53	2	4
52	„ 31 -	Llandudno - - -	52	35	46·8	39·8	43·3	+1·3	2	0·10	−0·74	?	?
„	„ „ -	Foynes - - - -	55	30	47·7	38·0	42·8	+1·3	2	0·27	?	*	*

c 11595. 470 & 100.—3/84. Wt. . E. & S.

SUMMARY OF RAINFALL AND TEMPERATURE for the FIRST QUARTER of the YEAR (January to March).

Vol. VI., No. 13a. (Issued as part of the Weekly Weather Report for the year 1883.)

	YEARS.	PRINCIPAL WHEAT-PRODUCING DISTRICTS.							PRINCIPAL GRAZING, &c. DISTRICTS.						BRITISH ISLANDS GENERALLY.
		0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEAN FOR ALL THE WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEAN FOR ALL THE GRAZING, &c. DISTRICTS.	
		ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
RAINFALL (in inches).	1866	14·8	11·3	5·8	7·4	7·1	11·4	9·6	15·4	13·4	16·9	13·7	12·0	14·3	11·7
	1867	10·7	9·5	5·4	5·7	8·1	8·8	8·0	9·9	11·1	15·2	11·8	10·7	11·7	9·7
	1868	19·1	11·7	4·9	5·4	6·7	7·5	9·2	17·6	13·3	11·9	13·0	10·5	13·3	11·1
	1869	11·8	8·9	6·2	6·2	7·7	9·0	8·3	11·4	12·2	14·0	12·1	12·1	12·4	10·1
	1870	6·4	6·7	4·8	3·9	5·1	6·0	5·5	8·8	9·0	10·7	8·6	9·7	9·4	7·2
	1871	9·4	6·9	3·8	3·9	4·8	6·1	5·8	11·7	8·7	10·0	10·7	9·4	10·1	7·8
	1872	8·2	11·2	7·8	6·1	9·8	10·1	8·9	15·2	14·0	19·5	12·7	13·1	14·9	11·6
	1873	7·9	7·2	5·3	5·4	7·1	8·4	6·9	10·0	9·6	14·1	8·8	11·9	10·9	8·7
	1874	11·5	6·5	3·5	3·1	5·7	4·4	5·8	8·6	11·0	12·5	8·4	7·7	9·6	7·5
	1875	8·4	7·0	3·9	3·7	5·8	6·7	5·9	9·8	8·7	12·6	7·1	10·2	9·7	7·6
	Means for 10 years, 1866 to 1875	10·8	8·7	5·1	5·1	6·8	7·8	7·4	11·8	11·1	13·7	10·7	10·7	11·6	9·3
	1876	13·4	9·5	6·3	6·7	8·2	7·5	8·6	12·1	12·0	10·9	10·0	10·0	11·0	9·7
	1877	11·9	9·8	7·1	7·6	8·3	10·7	9·2	14·2	15·4	14·2	13·4	11·4	13·7	11·3
	1878	9·3	4·3	4·9	4·6	3·8	4·9	5·3	11·0	7·3	6·2	8·2	7·9	8·1	6·6
	1879	5·5	7·0	5·2	6·3	6·2	8·3	6·4	8·5	6·7	11·2	6·7	11·4	8·9	7·5
	1880	7·4	5·3	3·1	3·3	4·2	4·6	4·7	9·1	6·2	6·7	7·6	9·9	7·9	6·1
	1881	9·4	7·4	6·2	5·9	6·7	6·8	7·1	9·4	8·6	9·8	7·7	8·7	8·8	7·9
	1882	10·5	5·3	3·1	4·1	5·8	3·7	5·4	11·5	7·8	7·1	8·1	9·8	8·9	7·0
	1883	9·2	6·7	5·8	6·6	7·4	7·6	7·2	12·1	8·6	10·5	10·4	14·0	11·1	9·0
	Means for 18 years, 1866 to 1883	10·3	7·9	5·2	5·3	6·6	7·3	7·1	11·4	10·2	11·9	10·0	10·6	10·8	8·8
TEMPERATURE (in degrees Fahrenheit).	1866	38°·3	38°·8	39°·1	40°·9	40°·4	41°·9	39°·9	40°·0	40°·6	43°·4	39°·9	40°·3	40°·8	40°·3
	1867	36·9	37·2	36·8	38·6	38·2	39·2	37·8	37·7	38·6	41·4	38·1	39·9	39·1	38·4
	1868	40·7	41·7	41·1	41·4	41·9	42·0	41·5	42·3	42·4	44·4	42·1	44·3	43·1	42·2
	1869	40·0	40·3	40·6	41·1	41·2	42·0	40·9	42·0	42·1	45·1	42·9	44·6	43·3	42·0
	1870	37·9	37·4	37·1	37·4	38·0	38·2	37·7	38·6	38·7	41·3	39·8	41·6	40·0	38·7
	1871	40·0	39·7	38·8	39·2	40·1	40·3	39·7	40·0	40·0	43·3	41·6	43·4	41·7	40·6
	1872	40·9	40·9	41·3	42·3	42·9	43·7	42·0	42·9	43·3	46·1	42·4	44·5	43·8	42·8
	1873	39·0	38·4	38·5	38·9	39·1	39·9	39·0	39·2	39·7	42·6	39·8	41·0	40·5	39·6
	1874	41·7	41·8	41·3	40·4	41·0	42·0	41·4	42·3	41·8	45·0	42·8	45·2	43·4	42·3
	1875	39·5	39·0	38·8	38·6	39·2	40·2	39·2	39·8	40·2	42·9	41·6	44·6	41·8	40·4
	Means for 10 years, 1866 to 1875	39·5	39·5	39·3	39·9	40·2	40·9	39·9	40·5	40·7	43·6	41·0	42·9	41·8	40·7
	1876	38·7	38·3	39·2	39·0	38·9	40·0	39·0	39·5	39·8	42·4	40·1	43·3	41·0	39·9
	1877	38·4	38·8	40·4	41·7	41·8	43·1	40·7	40·5	41·8	44·9	41·4	45·2	42·8	41·6
	1878	39·4	40·1	40·8	40·6	41·8	41·7	40·7	41·9	42·2	44·2	42·5	45·1	43·2	41·8
	1879	35·8	34·2	35·9	36·5	36·4	37·8	36·1	36·5	36·8	40·8	38·0	40·5	38·5	37·2
	1880	40·6	39·8	39·5	39·2	39·9	40·5	39·9	41·3	40·6	43·5	42·2	44·1	42·3	41·0
	1881	34·4	33·5	34·3	36·1	35·8	38·2	35·4	35·3	36·6	39·9	37·5	39·8	37·8	36·5
	1882	41·8	42·9	42·8	42·1	42·6	43·5	42·6	43·7	43·5	44·9	44·8	46·0	44·6	43·0
	1883	38·7	38·8	38·8	39·0	39·2	40·8	39·2	40·2	40·1	42·2	40·9	42·5	41·2	40·1
	Means for 18 years, 1866 to 1883	39·0	39·0	39·2	39·6	39·9	40·8	39·6	40·2	40·5	43·3	41·0	43·1	41·6	40·5

TABLE showing the DATES of the DRIEST and WETTEST, and the COLDEST and WARMEST corresponding QUARTERS for the 18 years, 1866 to 1883.

—		WHEAT DISTRICTS.		GRAZING, &c. DISTRICTS.		GENERALLY.	
			inches.		inches.		inches.
Rainfall	Driest	1880	4·7	1880	7·9	1880	6·1
	Wettest	1866	9·6	1872	14·9	1866	11·7
Temperature	Coldest	1881	35°·4	1881	37°·8	1881	36°·5
	Warmest	1882	42°·6	1882	44°·6	1882	43°·0

R 8496. 100 & 470.—8/83. Wt. 32. E. & S.

NOTES.

1.—Rainfall.

The mean values for the Rainfall in the various districts given in this Table for the years 1866 to 1877 were obtained from observations made at the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Loch Broom. Helmsdale. Sandwick Manse.
1. SCOTLAND, E.	Inverness. Aberdeen. Ballater. Logierait. Stirling. Hawick.
2. ENGLAND, N.E.	N. Shields. York. Grimsby. Boston.
3. ENGLAND, E. (1866 to 1875)	Fakenham. Beccles. Witham. Bury St. Edmunds.
3. ENGLAND, E. (1876 & 1877.)	Yarmouth. Cambridge. Bury St. Edmunds.
4. MIDLAND COUNTIES	Leicester. Derby. Tenbury. Shiffnal. Cirencester. Banbury. Hitchin.
5. ENGLAND, S.	Bridport. Selborne. Maidstone. London (Camden Town).
6. SCOTLAND, W.	Dumfries. Ayr. Castle Toward.
7. ENGLAND, N.W. and N. WALES.	Llandudno. Manchester. Skipton.
8. ENGLAND, S.W. and S. WALES.	Barnstaple. Bodmin. Haverfordwest. Rhayader.
9. IRELAND, N.	Galway. (Doo Castle), Bunnanadden, Co. Sligo. Waringstown. Strabane.
10. IRELAND, S.	Cork. Waterford. Killaloe. Portarlington. Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Sandwick Manse. Stornoway. Dunrobin.
1. SCOTLAND, E.	Culloden. Aberdeen. Perth. Leith.
2. ENGLAND, N.E.	Bywell. N. Shields. Hull.
3. ENGLAND, E.	Royston. Holkham. Norwich. Wisbeach. Somerleyton.
4. MIDLAND COUNTIES	Derby. Nottingham. Cardington. Oxford.
5. ENGLAND, S.	Marlborough. Greenwich. Streatley. London (Camden Town). Weybridge. Strathfield Turgiss. Osborne. Bournemouth. Worthing.
6. SCOTLAND, W.	Greenock. Cockermouth. Silloth. Carlisle.
7. ENGLAND, N.W. and N. WALES.	Stonyhurst. Bradford. Leeds. Eccles. Liverpool. Llandudno.
8. ENGLAND, S.W. and S. WALES.	Gloucester. Taunton. Barnstaple. Truro. Helston.
9. IRELAND, N. (1866 to 1873.)	Belfast. Milltown (Banbridge) Armagh.† Athlone.*
9. IRELAND, N. (1874 to 1877.)	Moville. Milltown. Armagh. Donaghadee.
10. IRELAND, S. (1866 to 1873.)	Dublin.* Curragh Camp. Buttevant.* Cork. Valencia.†
10. IRELAND, S. (1874 to 1877.)	Kingstown. Parsonstown. Cork. Roche's Point. Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General and those published by the Scottish Meteorological Society, in their Quarterly Journal, and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1883 the means are obtained from the observations published in the Weekly Weather Report.

* Did not commence till January 1867. † Did not commence till January 1869.

By Order,
ROBERT H. SCOTT,
Secretary.

SUMMARY OF RAINFALL AND TEMPERATURE for the SECOND QUARTER of the YEAR (April to June).

Vol. VI., No. 26a. (Issued as Part of the Weekly Weather Report for the year 1883.)

	YEARS.	PRINCIPAL WHEAT-PRODUCING DISTRICTS.							PRINCIPAL GRAZING, &c. DISTRICTS.						BRITISH ISLANDS GENERALLY.
		0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEAN FOR ALL THE WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEAN FOR ALL THE GRAZING, &c. DISTRICTS.	
RAINFALL (in inches).		ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
	1866	6·2	4·8	5·2	6·0	6·3	6·7	5·9	5·1	6·3	6·5	6·7	8·2	6·6	6·2
	1867	10·6	8·0	6·8	6·2	6·7	5·8	7·4	10·5	8·3	10·0	10·0	9·3	9·6	8·4
	1868	10·9	6·1	3·7	3·2	3·3	4·1	5·2	7·7	4·4	5·9	6·6	6·3	6·2	5·7
	1869	6·7	5·3	7·5	5·0	7·5	6·6	6·4	4·8	7·6	8·2	7·7	7·8	7·2	6·8
	1870	9·5	4·1	4·3	2·3	2·5	2·4	4·2	7·4	5·7	4·2	6·4	4·6	5·7	4·9
	1871	4·3	6·1	7·5	7·5	7·5	7·7	6·8	8·3	7·7	8·4	7·5	7·7	7·9	7·3
	1872	11·4	10·4	7·4	6·6	8·6	8·5	8·8	11·2	12·0	10·9	9·8	7·6	10·3	9·5
	1873	7·9	5·9	4·8	4·7	5·6	4·3	5·5	5·1	4·7	5·9	6·3	5·1	5·4	5·5
	1874	10·0	4·5	3·4	3·9	3·9	5·3	5·2	5·5	5·0	4·5	6·8	4·2	5·2	5·2
	1875	8·7	5·5	4·2	4·9	6·4	6·0	6·0	6·5	7·6	9·8	7·0	6·5	7·5	6·6
	Means for 10 years, 1866 to 1875	8·6	6·1	5·5	5·0	5·8	5·7	6·1	7·2	6·9	7·4	7·5	6·7	7·1	6·6
	1876	8·4	6·1	6·2	4·9	5·5	4·9	6·0	6·4	7·0	5·5	5·6	5·0	5·9	6·0
	1877	10·1	8·8	6·7	5·6	6·8	6·2	7·4	9·5	8·4	11·2	8·5	10·9	9·7	8·4
	1878	3·7	6·3	7·7	8·2	9·2	8·5	7·3	8·8	8·2	11·7	9·0	13·8	10·3	8·6
	1879	4·5	8·5	8·7	10·2	10·1	10·3	8·7	9·9	8·4	10·4	10·1	11·7	10·1	9·3
	1880	4·9	5·0	6·6	6·2	7·1	5·7	5·9	8·0	6·9	5·4	8·9	8·3	7·5	6·6
	1881	7·2	5·6	4·4	4·3	4·4	4·3	5·0	9·5	8·1	5·7	8·5	8·2	8·0	6·4
	1882	7·4	7·5	9·2	8·2	9·8	7·7	8·3	10·6	10·9	10·3	9·3	9·6	10·1	9·1
	1883	5·7	3·7	6·3	6·7	7·2	5·0	5·8	7·9	5·9	6·4	6·3	7·6	6·8	6·2
	Means for 18 years, 1866 to 1883	7·7	6·3	6·2	5·8	6·6	6·1	6·4	7·9	7·4	7·8	7·8	7·9	7·8	7·0
TEMPERATURE (in degrees Fahrenheit).		°	°	°	°	°	°	°	°	°	°	°	°	°	°
	1866	48·2	48·1	48·0	52·2	51·7	52·9	50·2	50·9	50·6	53·0	51·9	51·4	51·6	50·8
	1867	47·2	49·9	48·5	52·7	52·2	52·8	50·6	51·1	51·6	53·6	53·1	52·9	52·5	51·4
	1868	49·7	52·3	52·1	55·1	55·7	54·8	53·3	52·3	53·5	55·0	52·8	54·6	53·6	53·4
	1869	47·7	49·4	49·2	50·9	51·6	51·7	50·1	50·1	50·3	53·5	51·3	52·6	51·6	50·8
	1870	49·5	52·5	51·4	52·8	54·4	53·5	52·4	51·9	52·8	54·3	53·2	53·5	53·1	52·7
	1871	47·2	48·4	47·9	49·5	51·7	51·2	49·3	50·8	50·7	53·7	52·4	53·9	52·3	50·7
	1872	48·2	49·7	49·7	52·0	51·3	51·9	50·6	50·3	51·0	51·9	50·5	51·6	51·1	50·7
	1873	47·9	49·8	49·1	49·8	51·6	51·7	50·0	51·7	51·3	52·5	51·9	53·2	52·1	51·0
	1874	48·4	49·6	49·9	51·3	52·4	52·7	50·7	51·1	51·4	54·0	51·5	54·3	52·5	51·5
	1875	49·3	51·4	51·2	52·4	52·8	52·9	51·7	51·7	52·0	53·1	51·9	53·3	52·4	52·0
	Means for 10 years, 1866 to 1875	48·3	50·1	49·7	51·9	52·5	52·6	50·9	51·2	51·5	53·5	52·1	53·1	52·3	51·5
	1876	48·2	49·7	49·8	51·1	51·3	51·3	50·2	50·3	50·5	52·1	49·8	52·2	51·0	50·6
	1877	46·6	47·5	48·4	50·8	51·1	51·8	49·4	49·1	49·5	52·3	49·3	52·2	50·5	49·9
	1878	48·8	50·6	51·7	53·8	54·3	54·8	52·3	52·5	53·5	53·5	52·6	53·7	53·2	52·7
	1879	45·0	46·8	47·5	48·8	49·0	49·8	47·8	48·4	48·6	50·0	48·4	50·0	49·1	48·4
	1880	47·6	49·9	49·5	51·1	50·9	52·0	50·2	50·5	50·5	52·3	50·4	52·1	51·2	50·6
	1881	46·8	50·1	50·6	52·6	52·9	53·5	51·1	50·8	51·8	52·5	51·8	52·8	51·9	51·5
	1882	47·5	49·4	50·4	52·4	52·2	53·8	51·0	50·7	51·8	52·4	51·2	52·2	51·7	51·3
	1883	47·3	50·1	50·2	52·1	52·2	52·9	50·8	50·0	51·0	51·7	50·5	51·5	50·9	50·9
	Means for 18 years, 1866 to 1883	47·8	49·7	49·7	51·8	52·2	52·6	50·6	50·8	51·2	52·9	51·4	52·7	51·8	51·2

TABLE showing the DATES of the DRIEST and WETTEST, and the COLDEST and WARMEST corresponding QUARTERS for the 18 years, 1866 to 1883.

—		WHEAT DISTRICTS.		GRAZING, &c. DISTRICTS.		GENERALLY.	
			inches.		inches.		inches.
Rainfall	Driest	1870	4·2	1874	5.2	1870	4·9
	Wettest	1872	8·8	1872 and 1878	10·3	1872	9·5
			°		°		°
Temperature	Coldest	1879	47°·8	1879	49°·1	1879	48°·4
	Warmest	1868	53°·3	1868	53°·6	1868	53°·4

R 8497. 100 & 470.—8/83. Wt. 32. E. & S.

NOTES.

1.—Rainfall.

The mean values for the Rainfall in the various districts given in this Table for the years 1866 to 1877 were obtained from observations made at the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Loch Broom. Helmsdale. Sandwick Manse.
1. SCOTLAND, E.	Inverness. Aberdeen. Ballater. Logierait. Stirling. Hawick.
2. ENGLAND, N.E.	N. Shields. York. Grimsby. Boston.
3. ENGLAND, E. (1866 to 1875)	Fakenham. Beccles. Witham. Bury St. Edmunds.
3. ENGLAND, E. (1876 & 1877)	Yarmouth. Cambridge. Bury St. Edmunds.
4. MIDLAND COUNTIES	Leicester. Derby. Tenbury. Shifnal. Cirencester. Banbury. Hitchin.
5. ENGLAND, S.	Bridport. Selborne. Maidstone. London (Camden Town).
6. SCOTLAND, W.	Dumfries. Ayr. Castle Toward.
7. ENGLAND, N.W. and N. WALES.	Llandudno. Manchester. Skipton.
8. ENGLAND, S.W. and S. WALES.	Barnstaple. Bodmin. Haverfordwest. Rhayader.
9. IRELAND, N.	Galway. (Doo Castle), Bunninadden, Co. Sligo. Waringstown. Strabane.
10. IRELAND, S.	Cork. Waterford. Killaloe. Portarlington. Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Sandwick Manse. Stornoway. Dunrobin.
1. SCOTLAND, E.	Culloden. Aberdeen. Perth. Leith.
2. ENGLAND, N.E.	Bywell. N. Shields. Hull.
3. ENGLAND, E.	Royston. Holkham. Norwich. Wisbeach. Somerleyton.
4. MIDLAND COUNTIES	Derby. Nottingham. Cardington. Oxford.
5. ENGLAND, S.	Marlborough. Greenwich. Streatley. London (Camden Town). Weybridge. Strathfield Turgiss. Osborne. Bournemouth. Worthing.
6. SCOTLAND, W.	Greenock. Cockermouth. Silloth. Carlisle.
7. ENGLAND, N.W. and N. WALES.	Stonyhurst. Bradford. Leeds. Eccles. Liverpool. Llandudno.
8. ENGLAND, S.W. and S. WALES.	Gloucester. Taunton. Barnstaple. Truro. Helston.
9. IRELAND, N. (1866 to 1873)	Belfast. Milltown (Banbridge). Armagh.† Athlone.*
9. IRELAND, N. (1874 to 1877)	Moville. Milltown. Armagh. Donaghadee.
10. IRELAND, S. (1866 to 1873)	Dublin.* Curragh Camp. Buttevant.* Cork. Valencia.†
10. IRELAND, S. (1874 to 1877)	Kingstown. Parsonstown. Cork. Roche's Point. Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General and those published by the Scottish Meteorological Society, in their Quarterly Journal, and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1883 the means are obtained from the observations published in the Weekly Weather Report.

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* Did not commence till January 1867.

† Did not commence till January 1869.

By Order,

ROBERT H. SCOTT,

Secretary.

SUMMARY OF RAINFALL AND TEMPERATURE for the THIRD QUARTER of the YEAR (July to September).

Vol. VI., No. 39a. (Issued as Part of the Weekly Weather Report for the year 1883.)

	YEARS.	PRINCIPAL WHEAT-PRODUCING DISTRICTS.							PRINCIPAL GRAZING, &c. DISTRICTS.						BRITISH ISLANDS GENERALLY.
		0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEAN FOR ALL THE WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEAN FOR ALL THE GRAZING, &c. DISTRICTS.	
RAINFALL (in inches).		ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
	1866	11·8	10·6	9·3	7·9	11·7	9·7	10·2	15·1	16·1	15·2	12·0	8·9	13·4	11·7
	1867	10·0	10·1	7·1	7·1	7·4	8·6	8·4	12·9	10·4	8·7	11·8	8·8	10·5	9·4
	1868	9·7	10·4	6·0	4·2	7·1	7·2	7·4	9·1	6·7	9·5	8·1	11·0	8·9	8·1
	1869	12·8	7·0	5·8	5·6	6·4	6·0	7·3	10·4	11·5	9·9	9·4	8·5	9·9	8·5
	1870	8·6	5·8	3·5	5·8	4·5	4·8	5·5	6·8	5·0	7·0	7·6	5·7	6·4	5·9
	1871	13·0	8·7	9·7	7·5	10·8	10·3	10·0	9·8	11·8	14·2	11·1	10·5	11·5	10·7
	1872	12·1	12·5	10·4	9·8	9·4	6·6	10·1	16·1	15·8	13·1	14·7	11·2	14·2	12·0
	1873	13·7	11·8	7·2	6·4	6·8	7·3	8·9	15·7	11·8	14·0	14·2	11·8	13·5	11·0
	1874	15·5	11·6	5·8	5·1	7·1	6·3	8·6	13·4	12·6	13·8	11·8	10·1	12·3	10·3
	1875	11·2	8·9	9·1	8·6	11·5	9·4	9·8	11·2	12·7	15·3	9·2	10·6	11·8	10·7
	Means for 10 years, 1866 to 1875	11·8	9·7	7·4	6·8	8·3	7·6	8·6	12·1	11·4	12·1	11·0	9·7	11·3	9·8
	1876	8·9	7·4	8·0	8·1	9·0	7·9	8·2	10·3	11·2	13·8	10·0	9·6	11·0	9·5
	1877	10·8	11·3	10·1	8·1	10·4	7·6	9·7	12·6	15·4	14·5	12·0	10·4	13·0	11·2
	1878	8·0	8·2	8·5	6·9	8·9	7·6	8·0	10·2	11·0	9·5	8·2	10·8	9·9	8·9
	1879	9·8	10·0	8·8	12·2	11·3	11·2	10·6	15·9	13·9	13·3	15·6	12·5	14·2	12·2
	1880	7·6	7·7	10·6	9·9	11·2	9·4	9·4	9·6	10·5	8·0	9·8	10·7	9·7	9·5
	1881	6·5	9·2	10·2	8·6	8·2	8·1	8·5	10·6	10·9	9·3	8·7	10·3	10·0	9·1
	1882	8·0	8·0	7·1	6·9	8·1	7·3	7·6	12·2	11·6	13·3	11·4	10·8	11·9	9·5
	1883	8·6	10·3	8·5	8·1	9·0	6·7	8·5	12·1	9·8	10·3	11·4	12·8	11·3	9·8
	Means for 18 years, 1866 to 1883	10·4	9·4	8·1	7·6	8·8	7·9	8·7	11·9	11·6	11·8	11·0	10·3	11·3	9·9
TEMPERATURE (in degrees Fahrenheit).		°	°	°	°	°	°	°	°	°	°	°	°	°	°
	1866	53·2	55·4	55·4	57·6	56·8	58·1	56·1	56·2	56·8	58·4	56·0	57·2	56·9	56·5
	1867	53·7	56·0	55·9	58·8	58·5	59·2	57·0	57·2	58·2	60·0	58·5	59·4	58·7	57·8
	1868	55·0	58·5	58·8	62·5	62·4	62·4	59·9	59·5	61·2	63·6	59·1	60·8	60·8	60·3
	1869	54·5	57·4	57·6	60·2	60·5	60·3	58·4	58·2	59·1	61·4	59·5	59·8	59·6	59·0
	1870	55·6	58·1	57·2	59·6	60·5	60·3	58·6	58·5	59·5	61·7	59·6	60·3	59·9	59·2
	1871	55·1	57·4	57·5	59·9	59·5	60·1	58·3	57·3	58·3	60·6	57·2	58·0	58·3	58·3
	1872	54·0	55·9	57·1	59·7	60·1	60·3	57·9	57·7	59·1	60·7	57·9	59·3	58·9	58·3
	1873	54·1	56·4	57·3	59·1	58·7	59·4	57·5	57·4	57·8	59·5	56·6	57·9	57·8	57·7
	1874	54·4	56·7	57·9	60·2	60·3	60·2	58·3	57·8	58·8	60·6	56·9	59·0	58·6	58·4
	1875	54·8	57·0	57·8	59·7	59·6	60·2	58·2	58·4	58·7	30·6	57·5	60·0	59·0	58·6
	Means for 10 years, 1866 to 1875	54·4	56·9	57·3	59·7	59·7	60·1	58·0	57·8	58·8	60·7	57·9	59·2	58·9	58·4
	1876	54·3	56·3	57·7	60·4	60·7	61·1	58·4	57·6	58·8	61·0	56·6	59·4	58·7	58·5
	1877	52·7	55·0	55·5	57·9	57·7	58·2	56·2	55·3	56·0	58·3	55·1	57·3	56·4	56·3
	1878	55·2	58·5	59·1	60·4	60·2	61·6	59·2	59·2	59·5	61·3	58·8	60·7	59·9	59·5
	1879	52·4	54·2	56·2	58·1	57·8	58·7	56·2	55·2	56·2	57·5	54·8	57·5	56·2	56·2
	1880	55·9	57·8	59·5	61·1	60·1	62·1	59·4	58·6	59·8	61·3	58·8	60·1	59·7	59·6
	1881	52·1	56·8	56·8	58·6	57·7	59·4	56·6	54·8	56·4	57·5	55·8	56·4	56·2	56·4
	1882	54·2	56·6	57·7	58·2	57·1	58·8	57·1	56·0	56·8	57·4	55·9	56·2	56·5	56·8
	1883	52·9	55·8	56·9	58·5	57·7	59·5	56·9	55·9	57·2	57·5	55·8	56·9	56·7	56·8
	Means for 18 years, 1866 to 1883	54·1	56·7	57·4	59·5	59·2	60·0	57·8	57·3	58·3	59·9	57·3	58·7	58·3	58·0

TABLE showing the DATES of the DRIEST and WETTEST, and the COLDEST and WARMEST corresponding QUARTERS for the 18 years, 1866 to 1883.

—		WHEAT DISTRICTS.		GRAZING, &c. DISTRICTS.		GENERALLY.	
			inches.		inches.		inches.
Rainfall	Driest	1870	5·5	1870	6·4	1870	5·9
	Wettest	1879	10·6	1872 and 1879	14·2	1879	12·2
Temperature	Coldest	1866	56°·1	1879 and 1881	56°·2	1879	56°·2
	Warmest	1868	59°·9	1868	60°·8	1868	60°·3

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NOTES.

1.—Rainfall.

The mean values for the Rainfall in the various districts given in this Table for the years 1866 to 1877 were obtained from observations made at the following stations:—

Districts.	Stations.
0. SCOTLAND, N.	Loch Broom.
	Helmsdale.
	Sandwick Manse.
1. SCOTLAND, E.	Inverness.
	Aberdeen.
	Ballater.
	Logierait.
	Stirling.
	Hawick.
2. ENGLAND, N.E.	N. Shields.
	York.
	Grimsby.
	Boston.
3. ENGLAND, E. (1866 to 1875)	Fakenham.
	Beccles.
	Witham.
	Bury St. Edmunds.
3. ENGLAND, E. (1876 & 1877)	Yarmouth.
	Cambridge.
	Bury St. Edmunds.
4. MIDLAND COUNTIES	Leicester.
	Derby.
	Tenbury.
	Shiffnal.
	Cirencester.
	Banbury.
	Hitchin.
5. ENGLAND, S.	Bridport.
	Selborne.
	Maidstone.
	London (Camden Town).
6. SCOTLAND, W.	Dumfries.
	Ayr.
	Castle Toward.
7. ENGLAND, N.W. and N. WALES.	Llandudno.
	Manchester.
	Skipton.
8. ENGLAND, S.W. and S. WALES.	Barnstaple.
	Bodmin.
	Haverfordwest.
	Rhayader.
9. IRELAND, N.	Galway.
	(Doo Castle), Bunninadden, Co. Sligo.
	Waringstown.
	Strabane.
10. IRELAND, S.	Cork.
	Waterford.
	Killaloe.
	Portarlington.
	Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations:—

Districts.	Stations.
0. SCOTLAND, N.	Sandwick Manse.
	Stornoway.
	Dunrobin.
1. SCOTLAND, E.	Culloden.
	Aberdeen.
	Perth.
	Leith.
2. ENGLAND, N.E.	Bywell.
	N. Shields.
	Hull.
3. ENGLAND, E.	Royston.
	Holkham.
	Norwich.
	Wisbeach.
	Somerleyton.
4. MIDLAND COUNTIES	Derby.
	Nottingham.
	Cardington.
	Oxford.
5. ENGLAND, S.	Marlborough.
	Greenwich.
	Streatley.
	London (Camden Town).
	Weybridge.
	Strathfield Turgiss.
	Osborne.
	Bournemouth.
	Worthing.
6. SCOTLAND, W.	Greenock.
	Cockermouth.
	Silloth.
	Carlisle.
7. ENGLAND, N.W. and N. WALES.	Stonyhurst.
	Bradford.
	Leeds.
	Eccles.
	Liverpool.
	Llandudno.
8. ENGLAND, S.W. and S. WALES.	Gloucester.
	Taunton.
	Barnstaple.
	Truro.
	Helston.
9. IRELAND, N. (1866 to 1873.)	Belfast.
	Milltown (Banbridge).
	Armagh.†
	Athlone.*
9. IRELAND, N. (1874 to 1877.)	Moville.
	Milltown.
	Armagh.
	Donaghadee.
10. IRELAND, S. (1866 to 1873.)	Dublin.*
	Curragh Camp.
	Buttevant.*
	Cork.
	Valencia.†
10. IRELAND, S. (1874 to 1877.)	Kingstown.
	Parsonstown.
	Cork.
	Roche's Point.
	Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General and those published by the Scottish Meteorological Society, in their Quarterly Journal, and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1883 the means are obtained from the observations published in the Weekly Weather Report.

* Did not commence till January 1867.

† Did not commence till January 1869.

By Order,

ROBERT H. SCOTT,

Secretary.

SUMMARY OF RAINFALL AND TEMPERATURE for the FOURTH QUARTER of the YEAR (October to December).

Vol. VI., No. 52a. (Issued as part of the Weekly Weather Report for the year 1883.)

	YEARS.	PRINCIPAL WHEAT-PRODUCING DISTRICTS.							PRINCIPAL GRAZING, &c. DISTRICTS.						BRITISH ISLANDS GENERALLY.
		0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEAN FOR ALL THE WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEAN FOR ALL THE GRAZING, &c. DISTRICTS.	
RAINFALL (in inches).		ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
	1866	20·6	9·0	6·0	5·9	6·7	6·3	9·1	14·4	15·3	12·4	11·9	9·2	12·6	10·7
	1867	16·8	5·7	4·8	5·7	5·5	5·8	7·4	10·4	10·3	12·1	9·6	7·5	10·0	8·6
	1868	19·0	10·3	9·5	7·9	9·7	11·4	11·3	15·1	18·5	18·3	14·0	14·3	16·0	13·5
	1869	19·8	9·8	7·9	9·1	7·7	8·5	10·5	14·0	13·6	14·3	13·1	9·5	12·9	11·6
	1870	16·0	9·3	10·5	8·4	8·6	9·5	10·4	10·6	16·0	15·9	14·6	12·2	13·9	12·0
	1871	15·1	7·3	5·4	4·3	4·2	4·6	6·8	10·7	10·7	12·4	7·6	9·4	10·2	8·3
	1872	18·0	15·0	11·6	10·6	12·0	16·5	14·0	16·3	17·4	25·1	16·8	17·6	18·6	16·1
	1873	21·2	9·6	3·5	4·6	4·6	6·5	8·3	11·7	10·6	9·4	7·9	7·7	9·5	8·8
	1874	17·8	9·2	8·0	7·0	7·4	10·6	10·0	14·4	15·0	16·0	13·0	12·7	14·2	11·9
	1875	13·7	11·1	10·1	9·6	11·4	11·2	11·2	12·5	12·7	18·5	10·1	13·1	13·4	12·2
	Means for 10 years, 1866 to 1875	17·8	9·6	7·7	7·3	7·8	9·1	9·9	13·0	14·0	15·4	11·9	11·3	13·1	11·4
	1876	13·7	13·2	10·5	7·5	11·7	13·4	11·7	16·0	14·1	19·1	14·4	17·6	16·2	13·7
	1877	23·1	11·3	6·4	6·4	7·4	10·6	10·9	18·1	17·8	17·2	14·3	14·0	16·3	13·3
	1878	11·1	8·4	10·3	9·7	8·0	8·5	9·3	11·1	9·0	13·6	11·9	8·2	10·8	10·0
	1879	8·6	4·8	3·6	3·4	2·7	2·6	4·3	6·2	5·5	4·5	5·0	4·3	5·1	4·7
	1880	12·8	8·5	9·8	9·3	11·0	13·0	10·7	12·3	13·7	16·1	9·5	12·6	12·8	11·7
	1881	12·0	7·3	7·4	8·6	8·7	9·8	9·0	15·2	11·9	14·3	12·0	15·0	13·7	11·1
	1882	11·8	11·4	11·5	11·5	13·0	12·7	12·0	17·1	13·2	19·7	12·6	14·8	15·5	13·6
	1883	14·7	6·0	5·9	7·8	7·3	7·4	8·2	15·7	11·3	11·9	12·2	10·9	12·4	10·1
	Means for 18 years, 1866 to 1883	15·9	9·3	7·9	7·6	8·2	9·4	9·7	13·4	13·1	15·0	11·7	11·7	13·0	11·2
TEMPERATURE (in degrees Fahrenheit).		°	°	°	°	°	°	°	°	°	°	°	°	°	°
	1866	43·6	44·2	45·1	46·1	45·7	46·8	45·3	46·0	46·2	50·3	45·4	46·9	47·0	46·0
	1867	43·9	42·9	42·3	43·0	42·6	43·2	43·0	43·4	42·9	45·8	44·2	44·9	44·2	43·6
	1868	42·0	42·0	43·1	44·8	44·3	45·5	43·6	43·6	44·2	48·1	44·0	45·5	45·1	44·3
	1869	40·9	41·5	41·8	42·7	42·9	43·7	42·3	42·5	43·9	46·6	44·7	45·5	44·6	43·3
	1870	40·3	40·0	40·3	41·6	41·3	41·9	40·9	40·5	41·6	44·4	41·5	43·2	42·2	41·5
	1871	42·2	42·1	42·3	41·5	41·7	41·8	41·9	42·4	43·0	45·3	43·2	44·7	43·7	42·7
	1872	42·4	42·0	43·3	44·4	44·2	45·4	43·6	43·6	44·4	47·3	42·8	44·1	44·4	44·0
	1873	43·4	42·9	44·2	43·9	43·6	44·5	43·8	44·2	44·7	48·9	44·3	46·3	45·3	44·4
	1874	41·4	39·9	40·8	41·8	41·7	43·0	41·4	40·5	42·3	46·0	42·8	45·7	43·5	42·4
	1875	42·7	42·1	43·0	42·7	43·0	43·5	42·8	42·8	43·6	45·9	43·5	46·0	44·4	43·5
	Means for 10 years, 1866 to 1875	42·3	42·0	42·6	43·3	43·1	43·9	42·9	43·0	43·7	46·7	43·6	45·3	44·5	43·6
	1876	44·0	43·4	45·2	46·2	44·8	47·2	45·1	44·6	46·1	49·0	45·7	48·1	46·7	45·8
	1877	42·9	43·3	43·6	44·4	44·1	44·8	43·9	44·5	45·3	49·2	44·4	47·4	46·2	44·9
	1878	40·5	39·7	39·8	40·8	40·7	42·3	40·6	40·9	41·5	44·5	42·1	42·8	42·4	41·4
	1879	41·8	41·0	40·3	39·7	39·8	41·2	40·6	42·2	42·0	45·3	43·0	45·0	43·5	41·8
	1880	39·1	40·4	42·4	43·6	45·6	45·3	42·7	42·2	43·6	47·7	42·9	44·9	44·3	43·4
	1881	43·2	43·0	43·2	43·5	43·2	45·2	43·6	44·3	44·5	47·7	44·3	46·8	45·5	44·4
	1882	41·3	40·1	42·6	43·5	42·8	45·5	42·6	42·2	44·0	46·5	42·8	44·6	44·0	43·3
	1883	42·4	43·0	43·8	44·2	43·8	45·6	43·8	44·3	45·0	46·9	44·6	46·5	45·5	44·6
	Means for 18 years, 1866 to 1883	42·1	41·9	42·6	43·3	43·1	44·2	42·9	43·1	43·8	46·9	43·7	45·5	44·6	43·6

TABLE showing the DATES of the DRIEST and WETTEST, and the COLDEST and WARMEST corresponding QUARTERS for the 18 years, 1866 to 1883.

—		WHEAT DISTRICTS.		GRAZING, &c. DISTRICTS.		GENERALLY.	
			inches.		inches.		inches.
Rainfall	Driest	1879	4·3	1879	5·1	1879	4·7
	Wettest	1872	14·0	1872	18·6	1872	16·1
Temperature	Coldest	1878 and 1879	40°·6	1870	42°·2	1878	41°·4
	Warmest	1866	45°·3	1866	47°·0	1866	46°·0

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NOTES.

1.—Rainfall.

The mean values for the Rainfall in the various districts given in this Table for the years 1866 to 1877 were obtained from observations made at the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Loch Broom. Helmsdale. Sandwick Manse.
1. SCOTLAND, E.	Inverness. Aberdeen. Ballater. Logierait. Stirling. Hawick.
2. ENGLAND, N.E.	N. Shields. York. Grimsby. Boston.
3. ENGLAND, E. (1866 to 1875)	Fakenham. Beccles. Witham. Bury St. Edmunds.
3. ENGLAND, E. (1876 &1877.)	Yarmouth. Cambridge. Bury St. Edmunds.
4. MIDLAND COUNTIES	Leicester. Derby. Tenbury. Shiffnal. Cirencester. Banbury. Hitchin.
5. ENGLAND, S.	Bridport. Selborne. Maidstone. London (Camden Town).
6. SCOTLAND, W.	Dumfries. Ayr. Castle Toward.
7. ENGLAND, N.W. and N. WALES.	Llandudno. Manchester. Skipton.
8. ENGLAND, S.W. and S. WALES.	Barnstaple. Bodmin. Haverfordwest. Rhayader.
9. IRELAND, N.	Galway. (Doo Castle), Bunnanadden, Co. Sligo. Waringstown. Strabane.
10. IRELAND, S.	Cork. Waterford. Killaloe. Portarlington. Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Sandwick Manse. Stornoway. Dunrobin.
1. SCOTLAND, E.	Culloden. Aberdeen. Perth. Leith.
2. ENGLAND, N.E.	Bywell. N. Shields. Hull.
3. ENGLAND, E.	Royston. Holkham. Norwich. Wisbeach. Somerleyton.
4. MIDLAND COUNTIES	Derby. Nottingham. Cardington. Oxford.
5. ENGLAND, S.	Marlborough. Greenwich. Streatley. London (Camden Town). Weybridge. Strathfield Turgiss. Osborne. Bournemouth. Worthing.
6. SCOTLAND, W.	Greenock. Cockermouth. Silloth. Carlisle.
7. ENGLAND, N.W. and N. WALES.	Stonyhurst. Bradford. Leeds. Eccles. Liverpool. Llandudno.
8. ENGLAND, S.W. and S. WALES.	Gloucester. Taunton. Barnstaple. Truro. Helston.
9. IRELAND, N. (1866 to 1873.)	Belfast. Milltown (Banbridge) Armagh.† Athlone.*
9. IRELAND, N. (1874 to 1877.)	Moville. Milltown. Armagh. Donaghadee.
10. IRELAND, S. (1866 to 1873.)	Dublin.* Curragh Camp. Buttevant.* Cork. Valencia.†
10. IRELAND, S. (1874 to 1877.)	Kingstown. Parsonstown. Cork. Roche's Point. Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General and those published by the Scottish Meteorological Society, in their Quarterly Journal, and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1883 the means are obtained from the observations published in the Weekly Weather Report.

* Did not commence till January 1867.

† Did not commence till January 1869.

By Order,
ROBERT H. SCOTT,
Secretary.

SUMMARY OF RAINFALL AND TEMPERATURE for the WHOLE YEAR.

Vol. VI., No. 52b. (Issued as Part of the Weekly Weather Report for the year 1883.)

	YEARS.	PRINCIPAL WHEAT-PRODUCING DISTRICTS.							PRINCIPAL GRAZING, &c. DISTRICTS.						BRITISH ISLANDS GENERALLY.
		0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEAN FOR ALL THE WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEAN FOR ALL THE GRAZING, &c. DISTRICTS.	
RAINFALL (in inches).		ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
	1866	53·4	35·7	26·3	27·2	31·8	34·1	34·8	50·0	51·1	51·0	44·3	38·3	46·9	40·3
	1867	48·1	33·3	24·1	24·7	27·7	29·0	31·2	43·7	40·1	46·0	43·2	36·3	41·9	36·0
	1868	58·7	38·5	24·1	29·7	26·8	30·2	33·2	49·5	42·9	45·6	41·7	42·1	44·4	38·5
	1869	51·1	31·0	27·4	25·9	29·3	30·1	32·5	40·6	44·9	46·4	42·3	37·9	42·4	37·0
	1870	40·5	25·9	23·1	20·4	20·7	22·7	25·6	33·6	35·7	37·8	37·2	32·2	35·3	30·0
	1871	41·8	29·0	26·4	23·1	27·3	28·7	29·4	40·5	38·9	45·0	36·9	37·0	39·7	34·1
	1872	49·7	49·1	37·2	33·1	39·8	41·7	41·8	58·8	59·2	68·6	54·0	49·5	58·0	49·2
	1873	50·7	34·5	20·8	21·1	24·1	26·5	29·6	42·5	36·7	43·4	37·2	36·5	39·3	34·0
	1874	54·8	31·8	20·7	19·1	24·1	26·6	29·5	41·9	43·6	46·8	40·0	34·7	41·4	34·9
	1875	42·0	32·5	27·3	26·8	35·1	33·3	32·9	40·0	41·7	56·2	33·4	40·4	42·3	37·2
	Means for 10 years, 1866 to 1875	49·1	34·1	25·7	24·2	28·7	30·3	32·0	44·1	43·5	48·7	41·0	38·5	43·2	37·1
	1876	41·4	36·2	31·0	27·2	34·4	33·7	34·5	44·8	44·3	49·3	40·0	42·2	44·1	38·9
	1877	55·9	41·2	30·3	27·7	32·9	35·1	37·2	54·4	57·0	57·1	48·2	46·7	52·7	44·2
	1878	32·1	27·2	31·4	29·4	29·9	29·5	29·9	41·1	35·5	41·0	37·3	40·7	39·1	34·1
	1879	28·4	30·3	26·3	32·1	30·3	32·4	30·0	49·5	34·5	39·4	37·4	39·9	38·3	33·8
	1880	32·7	26·5	30·1	28·7	33·5	32·7	30·7	39·0	37·3	36·2	35·8	41·5	38·0	34·0
	1881	35·1	29·5	28·2	27·4	28·0	29·0	29·6	44·7	39·5	39·1	36·9	42·2	40·5	34·5
	1882	37·7	32·2	30·9	30·7	35·7	31·4	33·3	51·4	43·5	50·4	41·4	45·0	46·4	39·2
	1883	38·2	26·7	26·5	29·2	30·9	26·7	29·7	47·8	35·6	39·1	40·3	45·3	41·6	35·1
	Means for 18 years, 1866 to 1883	44·2	32·8	27·3	26·4	30·2	30·8	31·9	44·7	42·3	46·6	40·4	40·5	42·9	36·9
TEMPERATURE (in degrees Fahrenheit).		°	°	°	°	°	°	°	°	°	°	°	°	°	°
	1866	45·8	46·6	46·9	49·2	48·7	49·9	47·9	48·3	48·6	51·3	48·3	49·0	49·1	48·4
	1867	45·4	46·5	45·9	48·3	47·9	48·6	47·1	47·4	47·8	50·2	48·5	49·3	48·6	47·8
	1868	46·9	48·6	48·8	51·0	51·1	51·2	49·6	49·4	50·3	52·8	49·5	51·3	50·7	50·1
	1869	45·8	47·2	47·3	48·7	49·1	49·4	47·9	48·2	48·9	51·7	49·6	50·6	49·8	48·8
	1870	45·8	47·0	46·5	47·9	48·6	48·5	47·4	47·4	48·2	50·4	48·5	49·7	48·8	48·0
	1871	46·1	46·9	46·6	47·5	48·3	48·4	47·3	47·6	48·0	50·7	48·6	50·0	49·0	48·1
	1872	46·4	47·1	47·9	49·6	49·6	50·3	48·5	48·6	49·5	51·5	48·4	49·9	49·6	49·0
	1873	46·1	46·9	47·3	47·9	48·3	48·9	47·6	48·1	48·4	50·4	48·2	49·6	48·9	48·2
	1874	46·5	47·0	47·5	48·4	48·9	49·5	48·0	47·9	48·6	51·4	48·5	51·1	49·5	48·7
	1875	46·6	47·4	47·7	48·4	48·7	49·2	48·0	48·2	48·6	50·6	48·3	51·0	49·4	48·6
	Means for 10 years, 1866 to 1875	46·1	47·1	47·2	48·7	48·9	49·4	47·9	48·1	48·7	51·1	48·7	50·2	49·4	48·6
	1876	46·3	46·9	48·0	49·2	48·9	49·9	48·2	48·0	48·8	51·1	48·1	50·8	49·4	48·7
	1877	45·2	46·2	47·0	48·7	48·7	49·5	47·6	47·4	48·2	51·2	47·6	50·5	49·0	48·2
	1878	46·0	47·2	47·9	48·9	49·3	50·1	48·2	48·6	49·2	50·9	49·0	50·6	49·7	48·9
	1879	43·8	44·1	45·0	45·8	45·8	46·9	45·2	45·6	45·9	48·4	46·1	48·3	46·9	46·0
	1880	45·8	47·0	47·7	48·8	49·1	50·0	48·1	48·2	48·6	51·2	48·6	50·3	49·4	48·7
	1881	44·1	45·4	46·2	47·7	47·4	49·1	46·7	46·3	47·3	49·4	47·4	49·0	47·9	47·2
	1882	46·2	47·3	48·4	49·1	48·7	50·4	48·3	48·2	49·0	50·3	48·7	49·8	49·2	48·7
	1883	45·3	46·9	47·4	48·5	48·2	49·7	47·7	47·6	48·3	49·6	48·0	49·4	48·6	48·1
	Means for 18 years, 1866 to 1883	45·8	46·8	47·2	48·5	48·6	49·4	47·7	47·8	48·5	50·7	48·3	50·0	49·1	48·4

TABLE showing the DATES of the DRIEST and WETTEST, and the COLDEST and WARMEST corresponding YEARS for the 18 years, 1866 to 1883.

—		WHEAT DISTRICTS.		GRAZING, &c. DISTRICTS.		GENERALLY.	
			inches.		inches.		inches.
Rainfall	Driest	1870	25·6	1870	35·3	1870	30·0
	Wettest	1872	41·8	1872	58·0	1872	49·2
			°.		°.		°.
Temperature	Coldest	1879	45°·2	1879	46°·9	1879	46°·0
	Warmest	1868	49°·6	1868	50°·7	1868	50°·1

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NOTES.

1.—Rainfall.

The mean values for the Rainfall in the various districts given in this Table for the years 1866 to 1877 were obtained from observations made at the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Loch Broom. Helmsdale. Sandwick Manse.
1. SCOTLAND, E.	Inverness. Aberdeen. Ballater. Logierait. Stirling. Hawick.
2. ENGLAND, N.E.	N. Shields. York. Grimsby. Boston.
3. ENGLAND, E.	1866 to 1875: Fakenham. Beccles. Witham. Bury St. Edmunds. 1876 & 1877: Yarmouth. Cambridge. Bury St. Edmunds.
4. MIDLAND COUNTIES	Leicester. Derby. Tenbury. Shiffnal. Cirencester. Banbury. Hitchin.
5. ENGLAND, S.	Bridport. Selborne. Maidstone. London (Camden Town).
6. SCOTLAND, W.	Dumfries. Ayr. Castle Toward.
7. ENGLAND, N.W. and N. WALES.	Llandudno. Manchester. Skipton.
8. ENGLAND, S.W. and S. WALES.	Barnstaple. Bodmin. Haverfordwest. Rhayader.
9. IRELAND, N.	Galway. (Doo Castle), Bunninadden, Co. Sligo. Waringstown. Strabane.
10. IRELAND, S.	Cork. Waterford. Killaloe. Portarlington. Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Sandwick Manse. Stornoway. Dunrobin.
1. SCOTLAND, E.	Culloden. Aberdeen. Perth. Leith.
2. ENGLAND, N.E.	Bywell. N. Shields. Hull.
3. ENGLAND, E.	Royston. Holkham. Norwich. Wisbeach. Somerleyton.
4. MIDLAND COUNTIES	Derby. Nottingham. Cardington. Oxford.
5. ENGLAND, S.	Marlborough. Greenwich. Streatley. London (Camden Town). Weybridge. Strathfield Turgiss. Osborne. Bournemouth. Worthing.
6. SCOTLAND, W.	Greenock. Cockermouth. Silloth. Carlisle.
7. ENGLAND, N.W. and N. WALES.	Stonyhurst. Bradford. Leeds. Eccles. Liverpool. Llandudno.
8. ENGLAND, S.W. and S. WALES.	Gloucester. Taunton. Barnstaple. Truro. Helston.
9. IRELAND, N.	1866 to 1873: Belfast. Milltown (Banbridge). Armagh.† Athlone.* 1874 to 1877: Moville. Milltown. Armagh. Donaghadee.
10. IRELAND, S.	1866 to 1873: Dublin.* Curragh Camp. Buttevant.* Cork. Valencia.† 1874 to 1877: Kingstown. Parsonstown. Cork. Roche's Point. Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General and those published by the Scottish Meteorological Society, in their Quarterly Journal, and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1883 the means are obtained from the observations published in the Weekly Weather Report.

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* Did not commence till January 1867.

† Did not commence till January 1869.

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